

BREAKOUT TANK INSPECTION FORM

A completed **Standard Inspection Report** is to be submitted to the Director within 60 days from completion of the inspection. A **Post Inspection Memorandum (PIM)** is to be completed and submitted to the Director within 30 days from the completion of the inspection, or series of inspections, and is to be filed as part of the **Standard Inspection Report**.

Inspection Report		Post Inspection Memorandum	
Inspector/Submit Date: Dave Cullom 8/12/11		Inspector/Submit Date:	N/A
		Peer Review/Date:	J. Subsits 8/19/2011
		Director Approval/Date:	D. Lykken 8/22/2011
POST INSPECTION MEMORANDUM (PIM)			
Name of Operator:	Tidewater Terminal	OPID #:	31051
Name of Unit(s):	Snake River Terminal	Unit #(s):	
Records Location:	Pasco, WA	Activity #	
Unit Type & Commodity:	Hazardous Liquids -- Refined Product		
Inspection Type:	Standard	Inspection Date(s):	July 13-15, 2011
PHMSA Representative(s):		AFO Days:	3
<p>Summary:</p> <p>The inspection consisted of a review of records and a field inspection that identified a few deficiencies in overfill protection testing records, atmospheric corrosion surveys, and identifying covered tasks for inclusion into the OQ program. The monthly 653 inspections are being performed within the required timeframes.</p>			

Findings:	<p>The field inspection identified deficiencies in overfill protection testing records, atmospheric corrosion surveys, and identifying covered tasks for inclusion into the OQ program.</p>
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Company System Maps (copies for Region Files):	
Validate SMART Data (components, miles, etc): <input type="checkbox"/>	Acquisition(s), Sale or New Construction(submit SMART update): <input type="checkbox"/>
Validate Additional Requirements Resulting From Waiver(s) or Special Permit(s):	

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Name of Operator: Tidewater Terminal		Unit ID No. ⁽¹⁾ N/A	
OP ID No. ⁽¹⁾ 31051		System/Unit Name & Address: ⁽¹⁾	
HQ Address: P.O. Box 1210 6305 NW Old Lower River Rd Vancouver, WA 98660		671 Tank Farm Road Pasco, WA 99301	
Co. Official:	Pat Jensen	Activity Record ID #:	
Phone No.:	(509) 547-7701	Phone No.:	(509) 547-7701
Fax No.:	None provided	Fax No.:	None provided
Emergency Phone No.:	No HQ emergency number provided	Emergency Phone No.:	(509) 547-7701
Persons Interviewed		Title	
Pat Jensen		General Manager	
Josh Jarman		ER & S Specialist	
William (Bill Collins)		Environmental Manager	
Mark Davis		Terminal Operations Supervisor	
Ron McClary		Terminal Maintenance Supervisor	
Pat Jensen		General Manager	
PHMSA Representative(s) ⁽¹⁾ N/A		Inspection Date(s) ⁽¹⁾ July 13-15, 2011	
Company System Maps (Copies for Region Files):			
Comments: Overfill protection needs to be fully documented. .428a The gauge for the relief testing was written down as exactly 270 psig on every record. The probability of this occurrence was discussed with Company officials.			
For hazardous liquid operators, the attached evaluation form should be supplemented with PHMSA Form 3 and 49 CFR 195 during PHMSA inspections.			

¹ Information not required if included on page 1.

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Design and New Construction of Aboveground Breakout Tanks		S	U	N/A	N/C
.132	(a)	Each aboveground breakout tank must be designed and constructed to withstand the internal pressure produced by the hazardous liquid to be stored therein and any anticipated external loads.			
	(b)	After Oct. 2, 2000 compliance with paragraph (a) above requires:			
				X	
				X	
				X	
			X		

Comments:
 .132 – No tanks constructed after Oct 2, 2000

Tank Repairs, Alterations, and Reconstruction Procedures		S	U	N/A	N/C
.205	(a)	Aboveground breakout tanks repaired, altered, or reconstructed and returned to service must be capable of withstanding the internal pressure produced by the hazardous liquid to be stored therein and any anticipated external loads.			
		<i>The repair/alteration history includes all data accumulated on a tank from the time of its construction with regard to repairs, alterations, replacements, and service changes (recorded with service conditions such as stored product temperature and pressure). These records should include the results of any experiences with coatings and linings.</i>			
	(b)	After Oct. 2, 2000 compliance with paragraph (a) above requires:			
				X	
				X	
			X		

Comments:
 .205 – No tanks repaired after Oct 2, 2000

BREAKOUT TANK INSPECTION FORM

Impoundment, Protection Against Entry, Relief, and Venting Procedures		S	U	N/A	N/C					
.264	(a)	A means must be provided for containing hazardous liquids in the event of spillage or failure of an aboveground breakout tank. Containment and impoundment are effective means of controlling environmental releases and fires.				X				
	(b)	(1) For tanks built to API Specification 12F , API Standard 620 , and others (such as API Standard 650 or its predecessor Standard 12C), the installation of impoundment must be in accordance with the following sections of NFPA 30, Flammable and Combustible Liquids Code, (2008 edition, approved August 15, 2007) :								
		(i) Impoundment around a breakout tank must be installed in accordance with Section 3.2.3.2; and				X				
		(ii) Impoundment by drainage to a remote impounding area must be installed in accordance with Section 4.3.2.3.1.				X				
		(2) For tanks built to API Standard 2510 , the installation of impoundment must be in accordance with Section 5 or 11 of API Standard 2510, (8th edition, 2001) .						X		
	(c)	Aboveground breakout tank areas must be adequately protected against unauthorized entry.				X				
	(d)	Normal/emergency relief venting must be provided for each atmospheric pressure breakout tank. Each low-pressure and high-pressure breakout tank must have pressure/vacuum-relieving devices.				X				
	(e)	For normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000, compliance with paragraph (d) of this section requires the following for the tanks specified:								
		(1) Normal and emergency relief venting installed on atmospheric pressure tanks built to API Specification 12F, Specification for Shop Welded Tanks for Storage of Production Liquids , must be in accordance with Section 4, and Appendices B and C, of API Specification 12F, (applicable edition IBR at time of installation) .						X		
		(2) Normal/emergency relief venting installed on atmospheric pressure tanks (such as those built to API Standard 650 or its predecessor Standard 12C) must be in accordance with API Standard 2000, Venting Atmospheric and Low-Pressure Storage Tanks Nonrefrigerated and Refrigerated, (applicable edition IBR at time of installation) .						X		
	(3) Pressure-relieving and emergency vacuum-relieving devices installed on low pressure tanks built to API Standard 620 (Design, Construction, Large, Welded, Low-Pressure Storage Tanks) must be in accordance with Section 9 of API Standard 620 and its references to normal and emergency venting requirements in API Standard 2000, (applicable editions IBR at time of installation) .						X			
	(4) Pressure and vacuum-relieving devices installed on high pressure tanks built to API Standard 2510, Design and Construction of LPG Installations , must be in accordance with Sections 7 or 11 of API Standard 2510, (applicable edition IBR at time of installation) .						X			

Comments:

.264(b)(2) No 2510 tanks
 .264(e)1-4 No tanks constructed after Oct 2, 2000.

Pressure Test Procedures/Pressure Testing Aboveground Breakout Tanks		S	U	N/A	N/C					
.307	(a)	Aboveground breakout tanks built to API Specification 12F and first placed in service after October 2, 2000, pneumatic testing must be in accordance with section 5.3 of API Specification 12F (applicable edition IBR at time of testing) .						X		
	(b)	Aboveground breakout tanks built to API Standard 620 and first placed in service after October 2, 2000, hydrostatic and pneumatic testing must be in accordance with section 7.18 of API Standard 620 (applicable edition IBR at time of testing) .						X		
	(c)	Aboveground breakout tanks built to API Standard 650 and first placed in service after October 2, 2000, hydrostatic and pneumatic testing must be in accordance with section 5.3.5 of API Standard 650 (applicable edition IBR at time of testing) .						X		
	(d)	Aboveground atmospheric pressure breakout tanks constructed of carbon and low alloy steel, welded or riveted, and non-refrigerated and tanks built to API Standard 650 or its predecessor Standard 12C that are returned to service after October 2, 2000, the necessity for the hydrostatic testing of repair, alteration, and reconstruction is covered in section 12.3 of API Standard 653, (applicable editions IBR at time of testing) .						X		

BREAKOUT TANK INSPECTION FORM

Pressure Test Procedures/Pressure Testing Aboveground Breakout Tanks			S	U	N/A	N/C
	(e)	Aboveground breakout tanks built to API Standard 2510 and first placed in service after October 2, 2000, pressure testing must be in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Div.1 or 2, (applicable edition IBR at time of testing).			X	
.310	(a)	A record must be made of each pressure test required by this subpart, and the record of the latest test must be retained as long as the facility tested is in use.			X	
	(b)	The record required by paragraph (a) of this section must include: (1) The pressure recording charts; (2) Test instrument calibration data; (3) The name of the operator, the name of the person responsible for making the test, and the name of the test company used, if any; (4) The date and time of the test; (5) The minimum test pressure; (6) The test medium; (7) A description of the facility tested and the test apparatus; (8) An explanation of any pressure discontinuities, including test failures, that appear on the pressure recording charts; (9) Where elevation differences in the section under test exceed 100 feet (30 meters), a profile of the pipeline that shows the elevation and test sites over the entire length of the test section; and (10) Temperature of the test medium or pipe during the test period.			X	

Comments:

.307 and .310 The tanks were not constructed or repaired after Oct 2, 2000.

BREAKOUT TANK PROCEDURES			S	U	N/A	N/C
.402(c)(3)	.404(a)	Operator shall maintain current maps and records of its pipeline systems that include at least the following information; (1) Location and identification of (i) breakout tanks.	X			
	.405(a)	Provide protection against ignitions arising out of static electricity, lightning, and stray currents IAW API Recommended Practice 2003, <i>Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents</i> , (7 th edition, January 2008).	X			
	.405(b)	Review, consider, and incorporate into operator's procedure manual, the potentially hazardous conditions, safety practices and procedures associated with access/egress onto floating roofs IAW API 2026, <i>Safe Access/Egress Involving Floating Roofs of Storage Tanks In Petroleum Service</i> , (2 nd edition, April 1998, reaffirmed June 2006).	X			
	.422	Repairs shall be made in a safe manner and made so as to prevent damage to persons or property.	X			
	.428(a)	Inspect and test each overfill protection system, pressure limiting device, relief valve, pressure regulator, or other pressure control equipment (annually/NTE 15 mo), except as provided in paragraph (b) of this section. **Notes - The operator provided records, but it did not have all of the breakout tank overfill tests for the tanks currently on file**		X		
	.428(b)	In the case of or relief valves on pressure breakout tanks containing HVLs, operator shall test each valve at intervals not exceeding 5 years. **Notes - No HVL tanks or piping**			X	
	.428(c)	Aboveground breakout tanks <ul style="list-style-type: none"> • constructed or significantly altered according to section 5.1.2 of API Standard 2510 after October 2, 2000, must have an overfill protection system according to 5.1.2 of API Standard 2510, (8th edition, 2001). • if (600 gallons or more) constructed or significantly altered after October 2, 2000, must have overfill protection according to API Recommended Practice 2350, Overfill Protection for Storage Tanks in a Petroleum Facility, (3rd edition, January 2005). 			X	
	.430	Each operator shall maintain adequate firefighting equipment at each breakout tank area. The equipment must be— (a) In proper operating condition at all times; (b) Plainly marked so that its identity as firefighting equipment is clear; and (c) Located so that it is easily accessible during a fire.	X			

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BREAKOUT TANK PROCEDURES			S	U	N/A	N/C
.432(b)	Each operator shall inspect the physical integrity of in-service atmospheric and low-pressure steel aboveground breakout tanks according to API Standard 653, (3rd edition December 2001, includes addendum 1 (September 2003), addendum 2 (November 2005), addendum 3 (February 2008), and errata (April 2008) . However, if structural conditions prevent access to the tank bottom, the bottom integrity may be assessed according to a plan included in the operations and maintenance manual under §195.402(c)(3) .		X			
	-Owner/operator visual, external condition inspection interval not to exceed one month (more frequent inspections may be needed based on conditions at particular sites)		X			
	-External inspection, visual, by an Authorized Inspector at least every five years or at the quarter corrosion rate life of the shell, whichever is less.		X			
	-External ultrasonic thickness measurement of the shell based on the corrosion rate. If the corrosion rate is not known, the maximum interval shall be five years .		X			
	Are corrosion rate-based internal inspection intervals established in accordance with API 653, and in no case exceed 20 years ? (Unless Risk-Based Inspection alternative is applied).		X			
	If tank bottom upper or lower side corrosion rate is unknown, the Out of Service inspection interval shall not exceed 10 years .		X			
.432(c)	Each operator shall inspect the physical integrity of in-service steel aboveground breakout tanks built to API Standard 2510 according to section 6 of API 510 .				X	
.432(d)	The intervals of inspection specified by documents referenced in paragraphs (b) and (c) of this section begin on May 3, 1999 , or on the operator's last recorded date of the inspection, whichever is earlier.		X			
.434	Maintain signs visible to the public around each breakout tank area. Each sign must contain the name of the operator and a telephone number (including area code) where the operator can be reached at all times.		X			
.436	Operator shall provide protection for each breakout tank area and other exposed facility (such as scraper traps) from vandalism and unauthorized entry.		X			
.438	Operator shall prohibit smoking and open flames in each breakout tank area where there is a possibility of the leakage of a flammable hazardous liquid or of the presence of flammable vapors.		X			

Comments:
 .428c, .432c There are no tanks constructed to API Standard 2510

Corrosion Control Procedures			S	U	N/A	N/C	
.402(c)(3)	.563(d)	Breakout tank areas, bare pipelines, and buried pumping station piping must have cathodic protection in places where previous editions of this part required cathodic protection as a result of electrical inspections.	X				
	.565	Breakout Tank CP installation After 10/02/2000, required cathodic protection systems to protect above ground breakout tanks over 500 bbl capacity, shall be installed in accordance with API RP 651, (3rd edition, January 2007) . **Note – No tanks installed after 10/02/2000**			X		
	.571	Cathodic Protection (CP) Acceptance Criteria CP levels must comply with NACE Standard RP0169-96 (paragraphs 6.2 and 6.3), (reaffirmed March 15, 2007).	X				
	.573(d)	Breakout Tank CP inspections Cathodic protection systems used to protect breakout tanks must be inspected in accordance with API 651, (3rd edition, January 2007) .	X				
	11.3.2	Cathodic Protection Surveys – Annual CP surveys are required. Surveys may include one or more of the following:					
		1. Structure to soil potential.		X			
2. Anode current.		X					
3. Native structure to soil potentials		X					
4. Structure-to-structure potential		X					
5. Piping-to-tank isolation if protected separately.		X					
6. Structure-to-soil potential on adjacent structures.		X					

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Corrosion Control Procedures		S	U	N/A	N/C
	7. Continuity of structures if protected as a single structure.	X			
	8. Rectifier DC volts, DC amps, efficiency, and tap settings.	X			
	Rectifier Inspections:				
	- Every 2 months. – (Inspections should include a check for electrical shorts, ground connections, meter accuracy, and circuit resistance).	X			
11.3.3.4	Tank Bottoms – Tank bottom should be examined for evidence of corrosion whenever access to the bottom is possible. (During repairs, modifications, during API653 inspections) Examinations may be done by coupon cutouts or nondestructive methods.	X			
.577(a)	Interference Currents For breakout tanks exposed to stray currents, is there a program to minimize the detrimental effects? **Note – No stray currents were identified as an issue for breakout tanks**			X	
.579(d)	Breakout tank – internal corrosion mitigation After October 2, 2000, tank bottom linings installed in tanks built to API 12F, API 620, API 650, or its predecessor 12C must be installed in accordance with API RP 652 (3rd edition, October 2005) .	X			
.581(c)	Atmospheric Corrosion Protection Except for soil-to-air interfaces, atmospheric corrosion protection is not required where it is demonstrated by test, investigation, or similar environmental experience; that corrosion will – (1) Only be a light surface oxide; or (2) Not affect the safe operation of the pipeline before the next scheduled inspection.	X			
.583(a)	Atmospheric Corrosion Monitoring Inspect each pipeline that is exposed to the atmosphere for evidence of atmospheric corrosion at least once every 3 calendar years, but with intervals not exceeding 39 months.		X		
.583(c)	If you find atmospheric corrosion during an inspection, you must provide protection against the corrosion as required by §195.581.	X			

Comments:

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FIELD REVIEW		S	U	N/A	N/C
.258(a)	Is each valve installed in a location that is accessible to authorized employees and protected from damage or tampering?	X			
.260(b)	A valve must be installed on each line entering or leaving a breakout storage tank area in a manner that permits isolation of the tank area from other facilities.	X			
.264	Impoundment areas adequate, dikes not eroded, and dike drains operational.	X			
.428	Pressure Limiting Devices, relief valve, pressure regulator, overfill protection systems.	X			
.430	Each operator shall maintain adequate firefighting equipment at each breakout tank area that is: <ul style="list-style-type: none"> • In proper operating condition, • Plainly marked, and • Located to be readily accessible 	X			
.434	Signs visible to the public around each breakout tank area that contains the name of the operator and a telephone number (including area code) where the operator can be reached at all times.	X			
.436	Protection for each breakout tank area from vandalism and unauthorized entry.	X			
.438	Prohibition of smoking and open flames in breakout tank areas	X			
.565	Cathodic Protection System Facilities	X			
.581	Atmospheric Corrosion (piping, tanks, soil/air interfaces, splash zones) **Notes - The atmospheric corrosion items of concern have been identified under the pipeline portion of this inspection due to the corrosion residing on the pipeline at the delivery portion of the system and not in the breakout tank facility.**		X		
.501-.509	Operator Qualification - Use PHMSA Form 15 Operator Qualification Field Inspection Protocol				

BREAKOUT TANK INSPECTION FORM

RECORDS REVIEW		S	U	N/A	N/C
.132	Design and Construction of aboveground breakout tanks				
.205	Tank alteration and reconstruction records. For tanks repaired after 10/2/2000, records reflecting compliance with the referenced API standards. **Note – No tanks installed after 10/02/2000**			X	
.264	Impoundment determination records. For tanks constructed after 10/2/2000, records reflecting compliance with the referenced API/NFPA standards. **Note – No tanks installed after 10/02/2000**			X	
.264(d)	Record of calculations for normal/relief vents and pressure/vacuum vents.	X			
.310	Hydrostatic/pneumatic testing records for above ground breakout tanks for tanks first placed in service after 10/2/2000. **Note – No tanks installed after 10/02/2000**			X	
.404	Maps and records of location and identification of breakout tanks	X			
.405(a)	API RP 2003 (if not followed by operator, must have a documented basis) **Notes – No control room**			X	
.405(b)	Review applicable hazards in API RP 2026 for inclusion in the procedure manual	X			
.428	Testing of overpressure safety devices and overfill protection systems	X			
.432	Inspection of in-service breakout tanks (in accordance with applicable API Standard)				
	Monthly inspection reports	X			
	Annual inspection report(s) (not required if operator has implemented API 653 inspection program, but may be required by operator's O&M procedures).	X			
	In-service inspection report(s), including next inspection interval calculation	X			
	Out-of-service inspection report(s), including next inspection interval calculation	X			
	Follow-up actions from inspection findings (repairs, fill level height adjustments, other recommendations from inspection report).	X			
.573	External corrosion control monitoring records in accordance with API RP 651	X			
	Rectifiers (6 times per calendar year, not to exceed 2 ½ month intervals)	X			
	Electrical isolation and or bonds	X			
	Structure to Soil potentials, annual surveys	X			
.579	Tank bottom linings in accordance with API RP 652, if installed after October 2, 2000 **Note – No tanks installed after 10/02/2000**			X	
.581	Atmospheric corrosion monitoring (every 3 years not to exceed 39 months) **Notes – There were no atmospheric corrosion monitoring records available or provided for the breakout tank piping. This was noted under .583 not .581. .581 discusses coating and not inspection interval as this line item states.**		X		
.589	Current records or maps of cathodic protection and monitoring facilities, including galvanic anodes, installed after January 29, 2002, and neighboring structures bonded to CP systems.	X			

Comments:

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Breakout Tank Field Review (Complete one page for each tank or tank impound area inspected)						
.432	Tank Number(s)		S	U	N/A	N/C
	General Site Conditions	a. Runoff rainwater from the shell drains away from tank, and site drainage away from tank.	X			
		b. No vegetation against tanks, no flammable materials, trash.	X			
		c. No voids under tank/tank foundations, or settlement around perimeter of tank.	X			
	Tank Foundation, Bottom Shell	a. Concrete (no broken concrete, spalling, or cracks).	X			
		b. Plate and weld in bottom angle area (No thinning or corrosion).	X			
		c. Integrity of the bottom-to-foundation seal, if present.	X			
		d. No signs of bottom leakage.	X			
	External Shell	a. Exterior coating (No paint failure, pitting, or corrosion).	X			
		b. Rivet or seam leakage.	X			
		c. No cracks or signs of leakage on weld joints at nozzles, manways, and reinforcing plates.	X			
		d. No shell deformation.	X			
		e. No shell plate dimpling around nozzles, caused by excessive pipe deflection.	X			
	Tank Piping and Manifolds	a. No manifold piping, flange, or valve leakage.	X			
		b. Anchored piping (check that it would not cause tank shell bottom connection damage during earth movement).	X			
		c. Adequate thermal pressure relief of piping to the tank.	X			
		d. Temperature indicators are accurate and undamaged.	X			
	Shell-Mounted Sample Station	a. Sample line and return-to-tank line valves, seals, and drains function properly.	X			
		b. Circulation pump has no signs of leaks or operating problems.	X			
	Mixer	a. Mounting flange is properly supported.	X			
		b. No signs of leaks or operating problems.	X			
	Gauging System(s)	a. Verify proper operating condition	X			
		b. Evidence of operating problems	X			
	Inspection Recommendation(s) Follow-up	a. Have recommended actions from inspection reports been taken?	X			
		b. Have repairs identified by required inspections been made? **Note - A 2008 inspection noted some minor tank foundation washout, but no foundation undermining appeared to be present on the tanks we inspected during the field portion.**	X			

Comments:

BREAKOUT TANK INSPECTION FORM

TANK DATA

(See Note Below for * Items)		1	2	3	4	5	6
FACILITY NAME(S):		Tidewater	Tidewater	Tidewater	Tidewater	Tidewater	Tidewater
(A)	PRODUCT	2d15	2d15	Premium Unleaded	Premium Unleaded	2d15	2d15
(B)	TANK #	4	14	22	23	25	26
(C)	CONSTRUCTION YEAR and API STANDARD	1938-42	1945	1953 / API 12C	1953 / API 12C	1953 / API 12C	1953 / API 12C
(D)	CONSTRUCTION TYPE	W	W	W	W	W	W
(E)	CAPACITY (BBL)	10110	10615	20,000	20,000	20,000	20,000
(F)	LINING? (Y/N)	No	Yes	N	N	N	N
(G)	LINING TYPE?	N/A	Floor and 3' up Side shell Epoxy	N/A	N/A	N/A	N/A
(H)	TANK HT.(FT)	40	40	40	40	40	40
(I)	MAX. FILL HT. (FT)	37-3	37-1	36-1	36-1	37-10	37-10
(J)	DIA (FT)	42-6	44	60	60	60	60
(K)	ROOF TYPE	Fixed Cone	Fixed Cone	IF	IF	F	F
(L)	VOLUMETRIC ALARM(S)	High & High High Level	High & High High Level	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)
(M)	DIKE VOLUME (BBL)	Unknown	Unknown	84,583	84,583	84,583	84,583
(N)	DATE LAST INTERNAL INSPECTION	12/29/2009	6/16/2009	4/24/96	5/12/2005	7/18/2004	10/4/1995
(O)	OUT OF SERVICE REPAIR OR OTHER MAJOR REPAIR	None	None	4/1996 / Installation of Double Bottom	Soil side pitting repaired IF seal repaired 4/2005	7/2004 Installation of double bottom complete	4/1993 Installation of double bottom complete
(P)	DATE API 653 APPLIED	10/2/2000	10/2/2000	10/2/2000	10/2/2000	10/20/2000	10/20/2000
(Q)	CP TYPE & ANODE TYPE	No CP	"Yes" (per 2009 API rpt)	(N) Double Bottom	(R) MMO w/coke breeze	(N) Double Bottom	(N) double bottom
(R)	C P MONITORING	No CP	CP Monitored	N/A	CP Monitored around circumference	N/A	N/A
(S)	DUE DATE FOR NEXT INTERNAL INSPECTION?	12/29/2029	6/16/2029	4/2009	May-15	Jul-24	10/2010
(T)	INTERNAL INSPECTION INTERVAL? (YEARS)	20 yrs	20 yrs	10	10	20	15
(U)	INTERNAL INSPECTION INTERVAL BASIS?	Corrosion Rate	Corrosion Rate	API allowed	API corrosion rate .0043 in/yr	API allowed	API allowed
(V)	DUE DATE FOR NEXT EXTERNAL INSPECTION?	12/29/2014	6/16/2014	4/2014	8/2009	7/2009	10/2012
(W)	EXTERNAL INSPECTION INTERVAL BASIS?	5 yrs	5 yrs	API 5 year interval	10 years	API 5 Year Interval	API 5 Year interval
(X)	DUE DATE FOR NEXT U. T. INSPECTION?	12/29/2014	6/16/2014	4/2009	8/2009	7/2009	10/2012
(Y)	SHELL U.T. INSPECTION INTERVAL	12/29/2014	6/16/2014	Every 5 years	4.25 years	Every 5 years	Every 5 years
(Z)	SHELL U.T. INSPECTION INTERVAL BASIS?	Corrosion Rate	Corrosion Rate	API allowed	4.25 year interval 1/4 of the established corrosion rate of .0043 in/yr	API allowed	API allowed

NOTE: Enter the applicable codes below in the table above:

(A): (R) Refined; (C) Crude; (HVL) Highly Volatile Liquid; (O) Other

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(D): (W) Welded; (R) Riveted; (B) Bolted; Note if Tank is Insulated
 (K): (EF) External Floater; (IF) Internal Floater; (F) Fixed
 (L): (H) High; (HH) High-High; (OF) Overfill; (O) Other
 (N): Most Recent Date
 (O): Most Recent Date
 (Q): (A) Anodic; (R) Rectified (N) None - Document why not needed.
 (R): (F) Fixed Reference Cells Under Floor; (S) CP Monitored at Edge of Shell
 (U): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service
 (W): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service
 (Z): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service

Comments:

TANK DATA

(See Note Below for * Items)	7	8	9	10	11	12
FACILITY NAME(S):	Tidewater	Tidewater	Tidewater	Tidewater	Tidewater	Tidewater
* (A) PRODUCT	2D-15 Diesel	Unleaded	Unleaded	Unleaded	2D-15	2D-500
(B) TANK #	27	28	29	30	31	32
(C) CONSTRUCTION YEAR and API STANDARD	1951 / API 12C	1951 / API 12C	1951 / API 12C	1951 / API 12C	1951 / API 12C	1951 / API 12C
* (D) CONSTRUCTION TYPE	W	W	W	W	W	W
(E) CAPACITY (BBL)	20,000	20,000	20,000	20,000	20,000	20,000
(F) LINING? (Y/N)	Y	N	N	N	N	N
(G) LINING TYPE?	UNK	N/A	N/A	N/A	N/A	N/A
(H) TANK HT.(FT)	40	40	40	40	40	40
(I) MAX. FILL HT. (FT)	37-10	36-1	36-1	36-1	37-10	37-10
(J) DIA (FT)	60	60	60	60	60	60
* (K) ROOF TYPE	F	IF	IF	IF	EF	EF
* (L) VOLUMETRIC ALARM(S)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)
(M) DIKE VOLUME (BBL)	84,583	84,583	84,583	84,583	84,583	84583
* (N) DATE LAST INTERNAL INSPECTION	9/21/2001	7/7/1994	8/5/2003	4/05/1996	3/30/2006	11/29/2006
* (O) OUT OF SERVICE REPAIR OR OTHER MAJOR REPAIR	9/14/2001 Internal coating w/mag anode	7/2004 Installation of double bottom complete	10/2003 Double Bottom Installed	3/1996 Double Bottom Installed	4/2006 Internal coating w/mag anode	No Repairs
(P) DATE API 653 APPLIED	10/20/2000	10/20/2000	10/2/2000	10/2/2000	10/2/2000	10/2/2000
* (Q) CP TYPE & ANODE TYPE	(R) MMO w/coke breeze	(N) double bottom	(N) Double Bottom	(N) Double Bottom	(R) MMO w/coke breeze	(R) MMO w/coke breeze
* (R) C P MONITORING	CP Monitored around circumference	N/A	N/A	N/A	CP Monitored around circumference	CP Monitored around circumference
(S) DUE DATE FOR NEXT INTERNAL INSPECTION?	9/2011	7/2009	8/2013	4/5/2010	4/2016	4/2016
(T) INTERNAL INSPECTION INTERVAL? (YEARS)	10 years	15 years	10 years	14 years	10 years	10 years
* (U) INTERNAL INSPECTION INTERVAL BASIS?	API corrosion rate .003537	API allowed	API allowed	API allowed	API allowed	API allowed
(V) DUE DATE FOR NEXT EXTERNAL INSPECTION?	7/2008	72014	4/2009	4/2015	4/2011	4/2011
* (W) EXTERNAL INSPECTION INTERVAL BASIS?	API 5 Year Interval	API 5 Year Interval	API 5 Year Interval	API 5 Year Interval	API 5 Year Interval	API 5 Year Interval
(X) DUE DATE FOR NEXT U. T. INSPECTION?	7/2008	7/2009	4/2009	4/2010	4/2011	4/2011
(Y) SHELL U.T. INSPECTION INTERVAL	Every 5 years	Every 5 years	Every 5 years	Every 5 years	Every 5 years	Every 5 years
* (Z) SHELL U.T. INSPECTION INTERVAL BASIS?	API allowed	API allowed	API allowed	API allowed	API allowed	API allowed

NOTE: Enter the applicable codes below in the table above:

BREAKOUT TANK INSPECTION FORM

- (A): (R) Refined; (C) Crude; (HVL) Highly Volatile Liquid; (O) Other
- (D): (W) Welded; (R) Riveted; (B) Bolted; Note if Tank is Insulated
- (K): (EF) External Floater; (IF) Internal Floater; (F) Fixed
- (L): (H) High; (HH) High-High; (OF) Overfill; (O) Other
- (N): Most Recent Date
- (O): Most Recent Date
- (Q): (A) Anodic; (R) Rectified (N) None - Document why not needed.
- (R): (F) Fixed Reference Cells Under Floor; (S) CP Monitored at Edge of Shell
- (U): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service
- (W): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service
- (Z): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service

Comments:

BREAKOUT TANK INSPECTION FORM

TANK DATA

(See Note Below for * Items)		13	14	15	16	17	18	19
FACILITY NAME(S):		Tidewater	Tidewater	Tidewater	Tidewater	Tidewater	Tidewater	Tidewater
*(A)	PRODUCT	2D-500	2D-500	2D-500	2D-15	2D-15	Unleaded	Unleaded
(B)	TANK #	33	34	35	1	2	84	85
(C)	CONSTRUCTION YEAR and API STANDARD	1951 / API 12C	1951 / API 12C	1951 / API 12C	1977 / API 650	1977 / API 650	1996 / API 650	1996 / API 650
*(D)	CONSTRUCTION TYPE	W	W	W	W	W	W	W
(E)	CAPACITY (BBL)	20,000	30,000	30,000	35,000	45,000	30,000	30,000
(F)	LINING? (Y/N)	N	N	Y	Y	Y	N	N
(G)	LINING TYPE?	N/A	N/A	UNK	UNK	UNK	N/A	N/A
(H)	TANK HT.(FT)	40	40	40	40	40	40	40
(I)	MAX. FILL HT. (FT)	37-10	37-10	37-10	38-0	38-0	35-1	35-1
(J)	DIA (FT)	60	74	74	80	90	73-6	73-6
*(K)	ROOF TYPE	EF	EF	EF	EF	EF	IF	IF
*(L)	VOLUMETRIC ALARM(S)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)	(H),(HH)
(M)	DIKE VOLUME (BBL)	84,583	84,583	84,583	84,583	84,583	84,583	84,583
*(N)	DATE LAST INTERNAL INSPECTION	7/26/2005	1/18/2001	1/25/2001	8/22/2006	12/26/2001	9/28/2007	8/4/2007
*(O)	OUT OF SERVICE REPAIR OR OTHER MAJOR REPAIR	No Repairs	Internal Coating	Tank Coated	N/A	Tank Coated	None	None
(P)	DATE API 653 APPLIED	10/2/2000	10/2/2000	10/2/2000	10/2/2000	10/2/2000	10/2/2000	10/2/2000
*(Q)	CP TYPE & ANODE TYPE	(R) MMO w/coke breeze	(R) MMO w/coke breeze	(R) MMO w/coke breeze	(R) MMO w/coke breeze	(R) MMO w/coke breeze	N/A	N/A
*(R)	C P MONITORING	CP Monitored around circumference	CP Monitored around circumference	CP Monitored around circumference	CP Monitored around circumference	CP Monitored around circumference	N/A	N/A
(S)	DUE DATE FOR NEXT INTERNAL INSPECTION?	7/2015	1/2011	1/2011	8/2016	12/26/2011	9/2027	8/2027
(T)	INTERNAL INSPECTION INTERVAL? (YEARS)	10 years	10 years	10 years	10 years	10 years	20 years	20 years
*(U)	INTERNAL INSPECTION INTERVAL BASIS?	API allowed	API allowed	API allowed	API allowed	API allowed	API allowed	API allowed
(V)	DUE DATE FOR NEXT EXTERNAL INSPECTION?	7/2010	1/2016	1/2016	8/2011	12/2016	9/2012	8/2012
*(W)	EXTERNAL INSPECTION INTERVAL BASIS?	API 5 year interval	API 5 year interval	API 5 years interval	API 5 years interval	API 5 years interval	API 5 years interval	API 5 years interval
(X)	DUE DATE FOR NEXT U. T. INSPECTION?	7/2010	1/2011	1/2011	8/2011	12/2011	9/2012	8/2012
(Y)	SHELL U.T. INSPECTION INTERVAL	Every 5 years	Every 5 years	Every 5 years	Every 5 years	Every 5 years	Every 5 years	Every 5 years
*(Z)	SHELL U.T. INSPECTION INTERVAL BASIS?	API allowed	Next Out of Service Inspection date	API allowed	API allowed	API allowed	API allowed	API allowed

NOTE: Enter the applicable codes below in the table above:

- (A): (R) Refined; (C) Crude; (HVL) Highly Volatile Liquid; (O) Other
- (D): (W) Welded; (R) Riveted; (B) Bolted; Note if Tank is Insulated
- (K): (EF) External Floater; (IF) Internal Floater; (F) Fixed
- (L): (H) High; (HH) High-High; (OF) Overfill; (O) Other
- (N): Most Recent Date
- (O): Most Recent Date
- (Q): (A) Anodic; (R) Rectified (N) None - Document why not needed.
- (R): (F) Fixed Reference Cells Under Floor; (S) CP Monitored at Edge of Shell
- (U): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service
- (W): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service

BREAKOUT TANK INSPECTION FORM

(Z): (C) Calculation (based upon known corrosion rate); (M) API Maximum Allowed Interval; (O) Other; (SS) Similar Service

Comments: