

Breakout Tank Inspection - Design and New Construction

1. New Aboveground Breakout Tanks *Are new aboveground breakout tanks required to be designed and constructed to the specifications required by §195.132? (DC.TSNEW.BOSPEC.P) (detail) 195.132(a) (195.132(b))*

Notes

N/A No new breakout tanks since last inspection

Breakout Tank Inspection - Tank Repair

1. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service *Are breakout tanks required to be repaired, altered, or reconstructed in compliance with the requirements of §195.205? (DC.TS.BOMODIFY.P) (detail) 195.205(a) (195.205(b))*

Notes

N/A No repaired breakout tanks since last inspection

Breakout Tank Inspection - Protection

1. Breakout Tank Impoundment *Are new aboveground breakout tank impoundments, protection against entry, normal/emergency venting or pressure/vacuum reliefs required to comply with the requirements of §195.264? (DC.TSNEW.BOIMPOUNDPROTECT.P) (detail) 195.202 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))*

Notes

N/A No new impoundments since last inspection

Breakout Tank Inspection - Pressure Test

1. Pressure Testing - New Breakout Tanks *Have written test procedures been developed for testing new breakout tanks in accordance with §195.307? (DC.PTBO.BOPRESSTEST.P) (detail) 195.202 (195.307(a); 195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)*

Notes

N/A- No new or significantly repaired breakout tanks since last inspection

2. Breakout Tank Pressure Testing - Repairs, Alterations, and Reconstructions *Have written test procedures been developed for testing repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000? (DC.PTBO.BOPRESSTESTMODIFY.P) (detail) 195.402(c) (195.307(d); 195.310(a); 195.310(b); API 653)*

Notes

SAT-Section 205.5 O&M

Breakout Tank Inspection - Procedures

1. Normal Maintenance and Operations - History *Does the process include procedures for making construction records, maps, and operating history available as necessary for safe operation and maintenance?* (MO.LO.OMHISTORY.P) (detail) 195.402(a) (195.402(c)(1); 195.404(a); 195.404(a)(1); 195.404(a)(2); 195.404(a)(3); 195.404(a)(4); 195.404(c)(1); 195.404(c)(2); 195.404(c)(3))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

2. Protection Against Ignitions During O&M of Breakout Tanks *Does the process describe how the operator protects against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?* (FS.TS.IGNITIONBO.P) (detail) 195.402(c)(3) (195.405(a))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

3. Floating Roof Access/Egress Hazards *Does the process associated with access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance or repair activities of in-service tanks indicate that the operator has reviewed and considered the potentially hazardous conditions, safety practices and procedures in API Publication 2026?* (FS.TS.FLOATINGROOF.P) (detail) 195.402(c)(3) (195.405(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

4. Safety - Maintenance Construction and Testing *Does the process ensure that pipeline maintenance construction and testing activities are made in a safe manner and are made so as to prevent damage to persons and property?* (DC.MO.SAFETY.P) (detail) 195.402(a) (195.422(a); 195.402(c)(14))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

5. Breakout Tank Overfill Protection *Does the process require adequate testing and inspection of overfill devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]* (FS.TS.OVERFILLBO.P) (detail) 195.402(c)(3) (195.428(a); 195.428(c); 195.428(d))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

6. Testing HVL Breakout Tank Reliefs *Does the process require inspection and testing of pressure relief valves on HVL pressure breakout tanks at the required frequency?* (FS.TS.PRVTSTHVLBO.P) (detail) 195.402(c)(3) (195.428(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

7. Firefighting Equipment *Does the process require firefighting equipment at pump station/breakout tank areas?* (FS.FG.FIREPROT.P) (detail) 195.402(c)(3) (195.430(a); 195.430(b); 195.430(c))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

8. Breakout Tank Inspection - In-service *Does the process describe the interval and method for performing routine in-service inspections of steel atmospheric or low pressure breakout tanks?* (FS.TSAPIINSPECT.BOINSRVCINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

9. Breakout Tank Inspection - External *Does the process describe the interval and method for performing external inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOEXTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

10. Breakout Tank Inspection - External UT *Does the process describe the interval and method for performing external, ultrasonic thickness inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOEXTUTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

11. Breakout Tank Inspection - Internal *Does the process describe the interval and method for performing formal internal inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?* (FS.TSAPIINSPECT.BOINTINSP.P) (detail) 195.402(c)(3) (195.432(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

12. Breakout Tank Inspection - External Visual *Does the process describe the interval and method for performing visual external inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510?* (FS.TSAPIINSPECT.BOEXTINSPAPI2510.P) (detail) 195.402(c)(3) (195.432(c))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

13. Breakout Tank Inspection -Internal In-service *Does the process describe the interval and method for performing internal inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510?* (FS.TSAPIINSPECT.BOINTINSPAPI2510.P) (detail) 195.402(c)(3) (195.432(c))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

14. Signage *Does the process require operator signs to be posted around each pump station and breakout tank area?* (FS.FG.SIGNAGE.P) (detail) 195.402(c)(3) (195.434)

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

15. Facility Protection *Does the process require facilities to be protected from vandalism and unauthorized entry?* (FS.FG.PROTECTION.P) (detail) 195.402(c)(3) (195.436)

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

16. Smoking/Open Flames *Does the process prohibit smoking and open flames in each pump station and breakout tank area or where there is the possibility of the leakage of a flammable hazardous liquid or of the presence of flammable vapors?* (FS.FG.IGNITION.P) (detail) 195.402(c)(3) (195.438)

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

Breakout Tank Inspection - Corrosion

1. Cathodic Protection for Breakout Tanks *Does the process describe when cathodic protection must be installed on breakout tanks?* (TD.CPBO.BO651.P) (detail) 195.402(c)(3) (195.565, 195.563(d))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

2. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks required to be installed in accordance with API RP 651?* (DC.TS.BOCP.P) (detail) 195.402(c)(3) (195.565; 195.563(d))

Notes

SAT

*** 3. Cathodic Protection Monitoring Criteria** *Does the process require that CP monitoring criteria be used that is acceptable?* (TD.CPMONITOR.MONITORCRITERIA.P) (detail) 195.402(c)(3) (195.571)

Notes

SAT

4. Cathodic Protection for Breakout Tanks *Does the process adequately detail when and how cathodic protection systems will be inspected on breakout tanks?* (TD.CPBO.BO.P) (detail) 195.402(c)(3) (195.573(d))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

5. Interference Currents *Does the process give sufficient guidance and detail for identifying and testing areas of potential stray current, and minimizing the detrimental effects of stray currents?* (TD.CPMONITOR.INTFRCURRENT.P) (detail) 195.402(c)(3) (195.577(a); 195.577(b))

Notes

Note-procedures were inspected during the last O&M review conducted in 2012

6. Installing Bottom Linings in Aboveground Breakout Tanks *Are bottom linings required to be installed in aboveground breakout tanks to meet the requirements specified in §195.579(d)?* (DC.TS.BOBOTTOM.P) (detail) 195.402(c) (195.579(d))

Notes

SAT

7. Atmospheric Corrosion Coating *Does the process give adequate instruction for the protection of pipeline against atmospheric corrosion?* (TD.ATM.ATMCORRODECOAT.P) (detail) 195.402(c)(3) (195.581(a); 195.581(b); 195.581(c))

Notes

SAT

8. Atmospheric Corrosion Monitoring *Does the process give adequate instruction for the inspection of aboveground pipeline segments exposed to the atmosphere?* (TD.ATM.ATMCORRODEINSP.P) (detail) 195.402(c)(3) (195.583(a); 195.583(b); 195.583(c))

Notes

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Breakout Tank Inspection - Field Review

1. Valve Accessibility *Are valves accessible to authorized employees and protected from damage or tampering?* (DC.CO.VALVEPROTECT.O) (detail) 195.258(a)

Notes

SAT-Inspected Tanks, 1,2,27,32,33

2. Valve Locations *Are valves located as specified by §195.260? (DC.CO.VALVELOCATION.O) (detail) 195.260(a) (195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))*

Notes

SAT-Inspected Tanks, 1,2,27,32,33

3. Breakout Tank Impoundments *If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?* (FS.TS.IMPOUNDBO.O) (detail) 195.264(b)

Notes

SAT-Inspected Tanks, 1,2,27,32,33

4. Breakout Tank Overfill Protection *Do selected overfill protection systems on aboveground breakout tanks that were constructed or significantly altered after October 2, 2000 function properly and are they in good mechanical condition? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.] (FS.TS.OVERFILLBO.O) (detail) 195.428(c)*

Notes

SAT-Inspected Tanks, 1,2,27,32,33. Tested overfill alarm on 33 OK

5. Pump Station Fire Protection *Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly?* (FS.FG.FIREPROT.O) (detail) 195.430(a) (195.430(b); 195.430(c); 195.262(e))

Notes

SAT-Extinguishers last serviced 4/15. Also have new foam cannon trailer and installing foam dispensers on tanks.

6. Signage *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?* (FS.FG.SIGNAGE.O) (detail) 195.434

Notes

SAT

7. Facility Protection *Are facilities adequately protected from vandalism and unauthorized entry?* (FS.FG.FACPROTECT.O) (detail) 195.436

Notes

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8. Smoking/Open flames *Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?* (FS.FG.IGNITION.O) (detail) 195.438

Notes

SAT

9. Cathodic Protection for Breakout Tanks *Is cathodic protection on breakout tanks being installed in accordance with API RP 651? (DC.TS.BOCP.O) (detail) 195.565 (195.563(d))*

Notes

UNSAT-Inspected Tanks, 1,2,27,32,33. Took P/S readings on chime on all 4 quadrants for each tank. Tank 32 North side had a P/S read of -472mV. NE point had a read of -549mV. Ron McClary stated their annual CP survey was to occur in July and they would investigate this with their CP specialist. See No. 197 on Form G2.

10. Cathodic Protection for Breakout Tanks *Are cathodic protection monitoring tests performed correctly on breakout tank bottoms? (TD.CPBO.BO.O) (detail) 195.573(d)*

Notes

SAT-Inspected Tanks, 1,2,27,32,33

11. Atmospheric Corrosion Monitoring *Is aboveground pipe that is exposed to atmospheric corrosion protected? (TD.ATM.ATMCORRODEINSP.O) (detail) 195.583(c) (195.581(a))*

Notes

SAT-Inspected Tanks, 1,2,27,32,33 as well as regulated piping throughout facility.

Breakout Tank Inspection - Records Review

1. New Aboveground Breakout Tanks *Do records indicate new aboveground breakout tanks designed and constructed to the specifications required by §195.132(b)? (DC.TSNEW.BOSPEC.R) (detail) 195.132(b)*

Notes

N/A No new breakout tanks—last one completed in 1997

2. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service *Do records indicate breakout tanks repaired, altered, or reconstructed in compliance with the requirements of §195.205(b)? (DC.TS.BOMODIFY.R) (detail) 195.266 (195.205(b))*

Notes

N/A-no tanks meet this criteria since last inspection.

3. Breakout Tank Impoundments *If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment? (FS.TS.IMPOUNDBO.R) (detail) 195.404(c) (195.264(b))*

Notes

N/A-no tanks meet this criteria.

4. Breakout Tank Venting *Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate? (FS.TS.VENTBO.R) (detail) 195.404(c) (195.264(d))*

Notes

SAT

No tanks have pressure/vacuum venting. Diesel tanks used to but all internal components were removed—simply a goose neck vent now. All gasoline tanks have internal floating roofs with pontoons. Tank 24 currently out of service-converting from ethanol to gasoline.

5. Breakout Tank Pressure Testing *Have aboveground breakout tanks been pressure tested to their corresponding API or ASME Standard or Specification and do pressure test records contain the required information? (FS.TS.PRESSTESTBO.R) (detail) 195.310(a) (195.310(b); 195.307)*

Notes

UNSAT

Tanks 1, 2, 14, 22, 24, 33—Could not find hydrotest record for tanks 1,2 put into service in 1975 and 1976 respectively. Could not find hydrotest record for tank 14, first put into service in 1945. Could not find hydrotest record for tank 24 put into service in 1952.

CON-all of these tanks are pre October 2, 2000, so code language would not apply, however, Tidewater should make sure records are completed in the future if any pre-code tanks are re-hydrotested.

6. Normal Maintenance and Operations - History *Do records indicate current maps and records of its pipeline systems are maintained and made available as necessary?* (MO.LO.OMHISTORY.R) (detail) 195.404(a) (195.404(b); 195.404(c); 195.9; 195.402(c)(1))

Notes

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7. Protection Against Ignitions During O&M of Breakout Tanks *Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?* (FS.TS.IGNITIONBO.R) (detail) 195.404(c) (195.405(a))

Notes

SAT O&M 205.6.1

8. Floating Roof Access/Egress Hazards *Do records indicate access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance, or repair activities of in-service tanks is performed consistent with API Publication 2026?* (FS.TS.FLOATINGROOF.R) (detail) 195.404(c) (195.405(b))

Notes

SAT O&M 205.6.2

9. Testing HVL Breakout Tank Reliefs *Do records document testing and inspection of relief valves on HVL pressure breakout tanks at the required frequency?* (FS.TS.PRVTSTHVLBO.R) (detail) 195.404(c)(3) (195.428(b))

Notes

N/A-No HVL tanks

10. Breakout Tank Overfill Protection *Do records document the inspection and testing of overfill protection devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]* (FS.TS.OVERFILLBO.R) (detail) 195.404(c)(3) (195.428(a); 195.428(c); 195.428(d))

Notes

UNSAT-High and High/High for all tanks. John Hines performed this inspection and testing for Tanks Look at OQ currently not listed as an OQ covered task. See No. 119 on Form G2

11. Breakout Tank Inspection *Do records document that breakout tanks that are not steel atmospheric or low pressure tanks or HVL steel tanks built according to API 2510 have been inspected at the proper interval and that deficiencies found during inspections have been corrected?* (FS.TSAPIINSPECT.BOINSPECTION.R) (detail) 195.404(c)(3) (195.432(a))

Notes

N/A-All tanks are API 650 or 12C.

12. Breakout Tank Inspection - In-service *Do records document that steel atmospheric or low pressure breakout tanks have received routine in-service inspections at the required intervals and that deficiencies found during inspections have been documented?* (FS.TSAPIINSPECT.BOINSRVINSPECTION.R) (detail) 195.404(c)(3) (195.432(b))

Notes

Unsat-April, 2014 visual inspection done monthly by Tidewater personnel (Karen Scott) does not show a record for inspecting Tanks 31, 32, 33, 34. Note Tidewater procedures state this inspection interval shall not exceed one month (O&M 205.9) which is more stringent than the federal code.

Karen Scott's OQ records show she is not qualified to perform Task 027.1 Routine Monthly Inspection of Breakout Tanks (liquid).

Notes

13. Breakout Tank Inspection - External Do records document that steel atmospheric or low pressure breakout tanks have received external inspections at the required intervals and that deficiencies documented during inspections have been corrected within a reasonable time frame? (FS.TSAPIINSPECT.BOEXTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

Tank 4 due 12/29/14-performed 3/20/15-late by 2 month20 days

Tank 23 due 8/2014, performed 3/20/15-(new floor installed in 5/2010-next external due 5/2015)

Tank 28-due 8/29/15, performed 3/20/15 (note-the 5 year clock for external is reset to 5 years after the last internal inspection)

Tank 34-due 8/26/15, performed 3/20/15 (note-the 5 year clock for external is reset to 5 years after the last internal inspection)

14. Breakout Tank Inspection - External UT Do records document that steel atmospheric or low pressure breakout tanks have received ultrasonic thickness inspections at the required intervals and that deficiencies found during inspections have been documented? (FS.TSAPIINSPECT.BOEXTUTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

N/A-No tanks were due for external UT since the last inspection

15. Breakout Tank Inspection - Internal Do records document that steel atmospheric or low pressure breakout tanks have received formal internal inspections at the required intervals and that deficiencies found during inspections have been documented? (FS.TSAPIINSPECT.BOINTINSP.R) (detail) 195.404(c)(3) (195.432(b))

Notes

Tank 26-due March 30, 2014, performed 3/19/15-one year late (based on new floor in 1994, 10-year interval for internal inspection which would be 2004. Using 10 year interval criteria, next internal due 3/30/2014)

Tank 29 due 3/14, performed 8/2013 (due in 2023 after applying internal tank liner)

Tank 32 due 11/16, performed 3/28/14 (done 2 years early as applied liner to internal floor and 2' up sides)

16. Breakout Tank Inspection - External Visual Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 have received visual external inspections at the required intervals and that deficiencies found have been corrected? (FS.TSAPIINSPECT.BOEXTINSPAPI2510.R) (detail) 195.404(c)(3) (195.432(c))

N/A-All tanks are API 650 or 12C

17. Breakout Tank Inspection -Internal In-service Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 received internal inspections at the required intervals and that deficiencies found have been corrected? (FS.TSAPIINSPECT.BOINTINSPAPI2510.R) (detail) 195.404(c)(3) (195.432(c))

Notes

N/A-no 2510 tanks

18. Cathodic Protection for Breakout Tanks Do records document adequate cathodic protection system inspections on breakout tanks? (TD.CPBO.BO.R) (detail) 195.589(c) (195.573(d))

Notes

SAT-reviewed both rectifiers for tank farms

19. Internal Corrosion Lining of Breakout Tanks Do records document the adequate installation of breakout tank bottom linings? (TD.ICP.BOLINING.R) (detail) 195.589(c) (195.579(d))

SAT-Checked liner applied to Tank 32: Phenicon HS FF coating meeting API 652.

20. Atmospheric Corrosion Monitoring Do records document inspection of aboveground pipe exposed to atmospheric corrosion? (TD.ATM.ATMCORRODEINSP.R) (detail) 195.589(c) (195.583(a); 195.583(b); 195.583(c))

Notes

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21. Cathodic Protection System Maps and Records *Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service? (TD.CP.MAPRECORD.R) (detail) 195.589(a) (195.589(b))*

Notes

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