

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

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

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.BOIMPONDPROTECT.P) (detail) 195.202 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))

Notes

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

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

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

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

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

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

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

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.PRVTTESTHVLBO.P) (detail) 195.402(c)(3) (195.428(b))

Notes

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

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

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

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

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

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

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

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

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

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

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

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

*** 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

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

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

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

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

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

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

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

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

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

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

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

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

Notes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.BOINSRVCINSP.R) (detail) 195.404(c)(3) (195.432(b))

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

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

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

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))

Notes

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

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

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))

Notes

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

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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