

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

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(2) Welded, low-pressure (i.e., internal vapor space pressure not greater than 15 psig (103.4 kPa)), carbon steel tanks that have wall shapes that can be generated by a single vertical axis of revolution must be designed and constructed in accordance with API Standard 620.

Section 2.1.1

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

SAT

(2) For tanks built to API Specification 12F or API Standard 620, the repair, alteration, and reconstruction must be in accordance with the design, welding, examination, and material requirements of those respective standards.

MIP 603 1.0, 2.4

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

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Section 2.1.1

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

(b) For 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 (incorporated by reference, see §195.3).

MIP 604 Hydrostatic Testing of Atmospheric Storage Tanks

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

MIS 603-remove all references to API 650 and 653 as all tanks are 620 tanks.

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

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Section 4.17

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

N/A

Do not have internal floating roofs

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

N/A

Do not have internal floating roofs

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

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MIP 601 Above Ground Storage Tank Inspection

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

SAT

Section 4.13

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

Section 4.13

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

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Section 2.6 lays out fire control system. Map shows fire control at breakout tank areas and pump area.

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

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Section 4.16, MIP 601

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

SAT

Section 4.32(b), MIP 601

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

SAT

Section 2.MIP 601

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

SAT

MIP 601.

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

SAT

MIP 601

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

N/A

no API 2510 tanks

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
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Section 4.2

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
SAT
Section 4.2

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
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EOHS 102

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
N/A
Section 2.3.

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
N/A
Section 2.3.

*** 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
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Section 2.1.1, MIP 501

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
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Section 2.3

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

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MIP 501 2.2

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

N/A

No lining are used

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

MIP 504

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

SAT

EOHS 601, MIP 504

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

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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

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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

N/A

Tanks were constructed prior to October 2, 2000, but do have impoundment areas.

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

N/A

Tanks were constructed prior to October 2, 2000, but do have overfill protection.

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

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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

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

Notes

SAT

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

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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

N/A

Breakout tanks do not have cathodic protection due to design of foundation and HVL tank.

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

N/A

Breakout tanks do not have cathodic protection due to design of foundation and HVL tank.

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

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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.TS.NEW.BOSPEC.R) (detail) 195.132(b)

Notes

N/A

technical service visit for new operator-no records yet

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

technical service visit for new operator-no records yet

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

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

No floating roof

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

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

API 620 tanks

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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

N/A

technical service visit for new operator-no records yet

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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Looked at maps with procedures.

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