

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

Breakout Tank Inspection - Design and New Construction

1.	DC.TS.BOSPEC.P	Sat +	Sat	Con	Unsat	NA	NC
195.132(a) (195.132(b))						X	
Are new aboveground breakout tanks required to be designed and constructed to the specifications required by §195.132?							
Notes No new construction							

Breakout Tank Inspection - Tank Repair

1.	DC.TS.BOMODIFY.P	Sat +	Sat	Con	Unsat	NA	NC
195.205(a) (195.205(b))			X				
Are breakout tanks required to be repaired, altered, or reconstructed in compliance with the requirements of §195.205?							
Notes Chapter 6 contains this.							

Breakout Tank Inspection - Protection

1.	DC.TS.BOIMPONDPROTECT.P	Sat +	Sat	Con	Unsat	NA	NC
195.202 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))			X				
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?							
Notes 169,604 barrels is the containment volume.							

Breakout Tank Inspection - Pressure Test

1.	DC.PT.BOPRESSTEST.P	Sat +	Sat	Con	Unsat	NA	NC
195.202 (195.307(a); 195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)						X	
Have written test procedures been developed for testing new breakout tanks in accordance with §195.307?							
Notes No new tanks have been built or tested.							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

2.	DC.PT.BOPRESSTESTMODIFY.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c) (195.307(d); 195.310(a); 195.310(b); API 653)			X				
<p>Have written test procedures been developed for testing repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000?</p> <p>Notes Chapter 6 Section D addresses this.</p>							

Breakout Tank Inspection - Procedures

1.	MO.LO.OMHISTORY.P	Sat +	Sat	Con	Unsat	NA	NC
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))			X				
<p>Does the process include procedures for making construction records, maps, and operating history available as necessary for safe operation and maintenance?</p> <p>Notes Chapter 10 has the reference.</p>							

2.	FS.TS.IGNITIONBO.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.405(a))			X				
<p>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?</p> <p>Notes The roof is bonded and the tank shell is grounded.</p>							

3.	FS.TS.FLOATINGROOF.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.405(b))			X				
<p>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?</p> <p>Notes - It is in section 4 of the O&M.</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

4.	DC.MO.SAFETY.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(a) (195.422(a); 195.402(c)(14))			X				
<p>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?</p>							
<p>Notes - Page 37 Section XXI has the repair procedures.</p>							

5.	FS.TS.OVERFILLBO.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.428(a); 195.428(c); 195.428(d))			X				
<p>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.]</p>							
<p>Notes – See Section XXII Pg 37</p>							

6.	FS.TS.PRVTSTHVLBO.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.428(b))			X				
<p>Does the process require inspection and testing of pressure relief valves on HVL pressure breakout tanks at the required frequency?</p>							
<p>Notes No HVL</p>							

7.	FS.FG.FIREPROT.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.430(a); 195.430(b); 195.430(c))			X				
<p>Does the process require firefighting equipment at pump station/breakout tank areas?</p>							
<p>Notes In Section XXIII</p>							

8.	FS.TS.BOINSRVCINSP.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(b))			X				
<p>Does the process describe the interval and method for performing routine in-service inspections of steel atmospheric or low pressure breakout tanks?</p>							
<p>Notes In Section XXIV</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

9.	FS.TS.BOEXTINSP.P	Sat+	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(b))			X				
<p>Does the process describe the interval and method for performing external inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?</p> <p>Notes In Section XXIV A & B</p>							

10.	FS.TS.BOEXTUTINSP.P	Sat+	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(b))			X				
<p>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?</p> <p>Notes In Section XXIV D pg 40 for the shell UT inspection.</p>							

11.	FS.TS.BOINTINSP.P	Sat+	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(b))			X				
<p>Does the process describe the interval and method for performing formal internal inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?</p> <p>Notes</p>							

12.	FS.TS.BOEXTINSPAPI2510.P	Sat+	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(c))			X				
<p>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?</p> <p>Notes No bullet tanks</p>							

13.	FS.TS.BOINTINSPAPI2510.P	Sat+	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.432(c))			X				
<p>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?</p> <p>Notes None</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

14.	FS.FG.SIGNAGE.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.434)			X				
Does the process require operator signs to be posted around each pump station and breakout tank area?							
Notes XXV a pg 43							

15.	FS.FG.PROTECTION.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.436)			X				
Does the process require facilities to be protected from vandalism and unauthorized entry?							
Notes XXV c pg 43							

16.	FS.FG.IGNITION.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.438)			X				
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?							
Notes XXV d pg 43							

Breakout Tank Inspection - Corrosion

1.	TD.CP.BO651.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.565, 195.563(d))			X				
Does the process describe when cathodic protection must be installed on breakout tanks?							
Notes No new tanks, but RP651 is referenced on pg13 Section V h							

2.	DC.TS.BOCP.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.565; 195.563(d))			X				
Is cathodic protection on breakout tanks required to be installed in accordance with API RP 651?							
Notes – No new construction							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

3.	TD.CP.MONITORCRITERIA.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.571)			X				
Does the process require that CP monitoring criteria be used that is acceptable?							
Notes This is referenced in Section V f 1,2,3							

4.	TD.CP.BO.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.573(d))			X				
Does the process adequately detail when and how cathodic protection systems will be inspected on breakout tanks?							
Notes This is referenced in Section V b,c,d,e							

5.	TD.CP.INTFRCURRENT.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.577(a); 195.577(b))			X				
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?							
Notes This is referenced in Section V i Pg 13							

6.	DC.TS.BOBOTTOM.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c) (195.579(d))			X				
Are bottom linings required to be installed in aboveground breakout tanks to meet the requirements specified in §195.579(d)?							
Notes Pg 6 of the 2014 manual states there is an internal coating. It was inspected last year.							

7.	TD.ATM.ATMCORRODECOAT.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.581(a); 195.581(b); 195.581(c))			X				
Does the process give adequate instruction for the protection of pipeline against atmospheric corrosion?							
Notes This is referenced in Section XXVIII 5 m,n pg 46							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

8.	TD.ATM.ATMCORRODEINSP.P	Sat +	Sat	Con	Unsat	NA	NC
195.402(c)(3) (195.583(a); 195.583(b); 195.583(c))			X				
Does the process give adequate instruction for the inspection of aboveground pipeline segments exposed to the atmosphere?							
Notes See the response to question 7. This appears to be the same question. This is referenced in Section XXVIII 5 m,n pg 46							

Breakout Tank Inspection - Field Review

1.	DC.CO.VALVEPROTECT.O	Sat +	Sat	Con	Unsat	NA	NC
195.258(a)			X				
Are valves accessible to authorized employees and protected from damage or tampering?							
Notes The facility is gated.							

2.	DC.CO.VALVELOCATION.O	Sat +	Sat	Con	Unsat	NA	NC
195.260(a) (195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))						X	
Are valves located as specified by §195.260?							
Notes This is a construction requirement and is not retroactive							

3.	FS.TS.IMPOUNDBO.O	Sat +	Sat	Con	Unsat	NA	NC
195.264(b)						X	
If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?							
Notes – It is a pre-code tank. The impoundment contains enough volume for T-115.							

4.	FS.TS.OVERFILLBO.O	Sat +	Sat	Con	Unsat	NA	NC
195.428(c)			X				
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.]							
Notes							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

5.	FS.FG.FIREPROT.O	Sat+	Sat	Con	Unsat	NA	NC
195.430(a) (195.430(b); 195.430(c); 195.262(e))			X				
Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly?							
Notes							

6.	FS.FG.SIGNAGE.O	Sat+	Sat	Con	Unsat	NA	NC
195.434			X				
Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?							
Notes							

7.	FS.FG.FACPROTECT.O	Sat+	Sat	Con	Unsat	NA	NC
195.436			X				
Are facilities adequately protected from vandalism and unauthorized entry?							
Notes							

8.	FS.FG.IGNITION.O	Sat+	Sat	Con	Unsat	NA	NC
195.438			X				
Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?							
Notes							

9.	DC.TS.BOCP.O	Sat+	Sat	Con	Unsat	NA	NC
195.565 (195.563(d))			X				
Is cathodic protection on breakout tanks being installed in accordance with API RP 651?							
Notes							

10.	TD.ATM.ATMCORRODEINSP.O	Sat+	Sat	Con	Unsat	NA	NC
195.583(c) (195.581(a))			X				
Is aboveground pipe that is exposed to atmospheric corrosion protected?							
Notes							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

Breakout Tank Inspection - Records Review

1.	DC.TS.BOSPEC.R	Sat +	Sat	Con	Unsat	NA	NC
195.132(b)						X	
<p>Do records indicate new aboveground breakout tanks designed and constructed to the specifications required by §195.132(b)?</p>							
<p>Notes No new tanks will be constructed.</p>							

2.	DC.TS.BOMODIFY.R	Sat +	Sat	Con	Unsat	NA	NC
195.266 (195.205(b))						X	
<p>Do records indicate breakout tanks repaired, altered, or reconstructed in compliance with the requirements of §195.205(b)?</p>							
<p>Notes The tank was opened in 2013 to check the internal coating and was cleaned. No repairs were made. It will have an out of service in 2014.</p>							

3.	FS.TS.IMPOUNDBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c) (195.264(b))						X	
<p>If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment?</p>							
<p>Notes It was a pre-code tank.</p>							

4.	FS.TS.VENTBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c) (195.264(d))						X	
<p>Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate?</p>							
<p>Notes No devices installed after 10/2/2000.</p>							

5.	FS.TS.PRESSTESTBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.310(a) (195.310(b); 195.307)						X	
<p>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?</p>							
<p>Notes No pressure tests conducted – It is a pre-code atmospheric tank built to API 650 specs.</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

6.	MO.LO.OMHISTORY.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(a) (195.404(b); 195.404(c); 195.9; 195.402(c)(1))			X				
Do records indicate current maps and records of its pipeline systems are maintained and made available as necessary?							
Notes							

7.	FS.TS.IGNITIONBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c) (195.405(a))			X				
Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?							
Notes							

8.	FS.TS.FLOATINGROOF.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c) (195.405(b))						X	
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?							
Notes No records to indicate entry to floating roof during this inspection time period.							

9.	FS.TS.PRVTSTHVLBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.428(b))						X	
Do records document testing and inspection of relief valves on HVL pressure breakout tanks at the required frequency?							
Notes No HVL tanks							

10.	FS.TS.OVERFILLBO.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.428(a); 195.428(c); 195.428(d))			X				
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.]							
Notes Yes, I looked at the records for 2012, 2013, and 2014.							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

11.	FS.TS.BOINSPECTION.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(a))						X	
<p>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?</p>							
<p>Notes No 2510 or HVL tanks</p>							

12.	FS.TS.BOINSRVCINSP.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(b))			X				
<p>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?</p>							

13.	FS.TS.BOEXTINSP.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(b))				X			
<p>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?</p>							
<p>In the last two 5 year in-service API inspections, API 653 inspectors, Matthew Orr on 5/27/2008 and Byron Johnson on 4/8/2013, noted that there should be a moisture barrier caulking applied between the foundation and the tank shell. I recommend the operator address these findings by the API inspectors and provide justification on why they did not follow the API inspectors' recommendations.</p>							

14.	FS.TS.BOEXTUTINSP.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(b))			X				
<p>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?</p>							
<p>Notes The operator is doing an out of service in 2014.</p>							

15.	FS.TS.BOINTINSP.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(b))			X				
<p>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?</p>							
<p>Notes The operator is doing this as part of its out of service inspection in 2014.</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

16.	FS.TS.BOEXTINSPAPI2510.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(c))						X	
<p>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?</p>							
<p>Notes No 2510 or HVL tanks.</p>							

17.	FS.TS.BOINTINSPAPI2510.R	Sat +	Sat	Con	Unsat	NA	NC
195.404(c)(3) (195.432(c))						X	
<p>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?</p>							
<p>Notes No 2510 or HVL tanks.</p>							

18.	TD.CP.BO.R	Sat +	Sat	Con	Unsat	NA	NC
195.589(c) (195.573(d))			X				
<p>Do records document adequate cathodic protection system inspections on breakout tanks?</p>							
<p>Notes There was a reference cell reading low noted by D Ritter in his last UTC inspection, but that was corrected. They do use the 100mV shift in some cases to demonstrate adequate protection.</p>							

19.	TD.ICP.BOLINING.R	Sat +	Sat	Con	Unsat	NA	NC
195.589(c) (195.579(d))						X	
<p>Do records document the adequate installation of breakout tank bottom linings?</p>							
<p>Notes No bottom lining.</p>							

20.	TD.ATM.ATMCORRODEINSP.R	Sat +	Sat	Con	Unsat	NA	NC
195.589(c) (195.583(a); 195.583(b); 195.583(c))			X				
<p>Do records document inspection of aboveground pipe exposed to atmospheric corrosion?</p>							
<p>Notes Form T-115 monthly checklist has an "Exterior Paints" item to inspect for.</p>							

21.	TD.CP.MAPRECORD.R	Sat +	Sat	Con	Unsat	NA	NC
195.589(a) (195.589(b))			X				
<p>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?</p>							

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

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