UST Compliance: Region 7 Successes and Challenges

27th Annual National Tanks Conference & Exposition, Pittsburgh

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- Successes and Challenges shown with Region 7 Indian Country UST inspections performed between 4/1/2021 and 3/30/2022
 - Background on EPA UST Performance Measures
 - Technical and Non-Technical Compliance Rates
- Region 7 Compliance Assistance Efforts
 - Monthly Conference Calls
 - Ring Binders
 - Calendars
 - Next steps for FFY 2023



Disclaimer

 The use of organization, company, and product names is for informational purposes only and does not constitute endorsement by U.S. EPA.

Background



Meeting UST Compliance Performance Measures Guide For Inspectors April 2018

This document provides underground storage tank (UST) inspectors with information to use in determining whether facilities meet the UST compliance performance measures. This document will also help inspectors calculate EPA's technical compliance rate. Individual implementing agencies may choose to modify this document to ensure it meets your state's requirements and inspection procedures. The federal UST regulation requires UST owners and operators to comply with several periodic requirements. Examples include spill prevention equipment and containment sumps used for interstitial monitoring of piping are required to be tested at least once every three years. Owners and operators must perform periodic requirements on or before the same day of the period after the previous requirement was performed.

These resources can help inspectors prepare for and conduct inspections.

- Federal UST regulation <u>https://www.epa.gov/ust/revising-underground-storage-tank-regulations-revisions-existing-requirements-and-new</u>
- States with updated regulations that incorporate 2015 federal UST regulation
 <u>https://www.epa.gov/ust/state-underground-storage-tank-ust-programs#2015update</u>
- EPA's UST publications <u>https://www.epa.gov/ust/publications-related-underground-storage-tanks</u>
- National Work Group On Leak Detection Evaluations' (NWGLDE) List Of Leak Detection
 Evaluations For Storage Tank Systems http://www.nwglde.org/
- Underground Storage Tank Technical Compendium about the 2015 UST Regulation <u>https://www.epa.gov/ust/underground-storage-tank-ust-technical-compendium-about-2015-ust-regulations</u>

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Compliance Rate	
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Compliance Rate	
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- Technical Compliance Rate
 (TCR) Performance Measures
 - <u>www.epa.gov/ust/technical</u>
 <u>-compliance-rate-tcr-</u>
 <u>performance-measures</u>
 - Developed with coordination from the Association of State and Territorial Solid Waste Management Officials



UST Compliance Performance Measures Included In The Technical Compliance Rate

UST-9a. Spill Prevention

Spill prevention is not required for USTs in proper temporary closure or for USTs that never receive deliveries >25 gallons.

Element a: Spill prevention device is present and functional. [280.20(c)(1)(i), 280.21(d)] Verify that:

- Spill bucket is present.
- Spill bucket does not have any holes or cracks.
- In your judgment, the spill bucket will catch or contain drips or spills when the delivery hose is disconnected from the fill pipe.

Element b: Spill prevention device is tested every 3 years or periodically monitored. [280.35(a)(1)]

Verify that:

- Spill prevention equipment was tested in last 3 years and passed.
- If spill prevention failed test, it was repaired, retested and passed or replaced, according to a code of practice.
- Records for the last 3 years exist.
- Documentation of double-wall and periodic monitoring, if monitoring integrity of both walls every 30 days instead of testing every 3 years. Records must be maintained for as long as the spill bucket or containment sump is using periodic monitoring of the interstitial space.

UST-9b. Overfill Prevention

Overfill prevention is not required for USTs in proper temporary closure or for USTs that never receive deliveries >25 gallons.

Element a: Overfill prevention device is present and operational. [280.20(c)(1)(ii), 280.21(d)]

- Flapper valve is operational, that is, device is not tampered with or inoperable. [280.20(c)(1)(ii)(A), 280.21(d)]
- High level alarm is operational and audible or visible to delivery driver. [280.20(c)(1) (ii)(B), 280.21(d), 280.20(c)(1) (ii)(B), 280.21(d)]
- Ball float is operational. [280.20(c)(1)(ii)(B), 280.21(d)]

Identify the overfill prevention method used:

- *Flapper valve* automatically shuts off delivery when the tank is 95% full or before fittings on top of the tank are exposed to fuel.
 - Verify presence by installation records, contractor verification, or field observation.
 - Verify the flapper valve has not been tampered with, for example using a stick in the drop tube, to inhibit or modify the shut-off point.
 - Perform a visual observation of flapper valve housing in the fill pipe to look for damage.

Getting into the nuts and bolts of UST systems and inspections

How Region 7 collects the data

Present	Not Damaged	Impair Function	Tested Monitored	Repaired Replaced Retested	Last Test or Monitoring Records	Compliance Rate All Green Get "X"	
						Х	
						x	
						х	
						x	
						х	
						х	
			Ν	Number in C	Compliance	6	
		N			nspections	8	
			F	Percent in C	Compliance	75%	
S	Septemb	ber 202	2			Ν	ITC 20

- Column headings correspond to TCR criteria
- Color coding
 - Green Compliant
 - Red Noncompliant
- Compliance rate determined for facilities having all greens



Work repeated for remaining TCR and Non-TCR Rates

- TCR
 - UST-9b. Overfill Prevention
 - UST-9c. Corrosion Protection
 - UST-9d. Release Detection
 - UST-9e. Combined Measure
- Non-TCR
 - UST-10. Operator Training
 - UST-11. Financial Responsibility
 - UST-12. Walkthrough Inspections



UST inspections from 4/1/2021 to 3/31/2022

- Successes 75%
 - UST-9a. Spill Prevention
 - UST-9c. Corrosion Protection
 - UST-10. Operator Training
- Moderate 50% to 63%
 - UST-9b. Overfill Prevention
 - UST-11. Financial Responsibility
 - UST-12. Walkthrough Inspections
- Needs improvement 38% and below
 - UST-9d. Release Detection
 - UST-9e. Combined Measure

NTC 2022

Compliance Assistance Efforts



Monthly Conference Calls

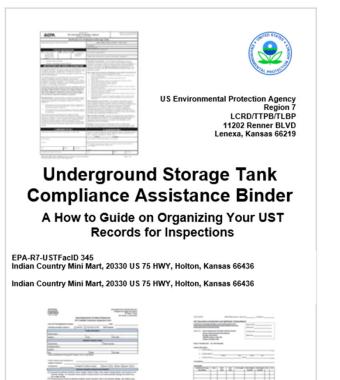


Agenda for 8/25/2022

- Greetings
- Latest News from EPA Region 7
 - FFY 2022 UST Inspections
 - Meeting Updates
- Compliance Corner
 - Preview of 2023 Region 7 UST Compliance Assistance Calendar
 - Group Exercise How do I prepare for my upcoming UST inspection?
- Round Robin
- Anything else?



Ring Binder



Introduction

Owners and operators of facilities with USTs have many things to track. Maintaining records associated with your UST system is a task that can prove to be difficult. EPA Region 7 has developed a Compliance Binder containing tabs for you to organize and store your UST records. Many of these records will be reviewed by the UST inspectors.

Each binder tab contains a list of documents that can be stored in that section of the binders. Thumbnails of UST compliance or testing forms also appear on each tab to provide examples of the documentation to be stored in that section. Please note that EPA Region 7 will accept UST compliance information that is submitted on stategenerated compliance forms.

Other tabs will hold space for additional compliance assistance materials made available by EPA Region 7. These materials include database printouts showing UST equipment installed at your facility, emergency response information, and information about the EPA Region 7 Underground Storage Tank and Leaking Underground Storage Tank programs. EPA Region 7 encourages the use of this binder for easy recordkeeping and to facilitate the inspection and your facility.

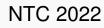
Table S	howing Tal	Numbers and	d Contents
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Tab Number	Title
1	UST Notification and Compliance Documents
2	Financial Responsibility (Insurance) Documents
3	UST Operator Training Documents
4	Triennial Testing Documents
5	Corrosion Protection Documents
6	Piping Release Detection Documents
7	Tank Release Detection Documents
8	Inventory Control
9	Walkthrough Inspections
10	Database Printouts
11	Emergency Response Documents
12	EPA Region 7 UST Program Information
13	EPA Region 7 LUST Program Information



Ring Binder included database printout

		Tanks fo	or India	n Cou	intry	Mini N	lart			
Indian Country Mini	Mart				Indi	an Country:	¥	Facility	D	345
20330 US 75 Hwy						Holto	n, KS			
Tribe:						Count	y: Jack	son		
Financial Responsibility:	Insurance P	olicy				xpiration Date:				
Coverage:	Cleanu			First Dollar D						
concise.	Occurrence		gregate		-					
Amount:										
Tank Number:	1	Tank Status:				ank Status Date:				
Capacity:	6,000	Currently In	Use	1		bstance Stored:	-			
Tank Construction:	Single Wal	FRP			Т	ank Install Date:	1/1/20	07		
Special Configuration:			Explanation	n:						
Tank Corrosion Protection:	Nonmetall	ic				CP Install Date:	1/1/20	07		
CP Repair/Upgrade Date:				CP T	est/Internal I	Inspection Date:				
Line Construction:	Flexible DV	V Nonmetallic				Fuel Delivery:	Pressu	rized		
Line Corrosion Protection:				1	Li Li	ne CP Test Date:				
Line/Dispenser Upgrade:				1.	ine/Dispense	r Upgrade Date:				
Spill Bucket:		Double	Walled			Drop Tube:				
Triennial Spill Buc			Give last date		a state in the second		Ϋ́			
		(also	Give last date	checked if I						
Type of Overfill:		vaive			2nd 1	Type of Overfill:				
Triennial Ove				1			-			
Tank Release Detection:		Tank Guage			Tank R	D Model/Manu:				
Annual Operabi	lity Test Date:						_			
2nd Release Detection:					2nd Tank R	Model/Manu:				
Annual Annular Sen	sor Test Date:			_						
Line Release Detection:	Tightness	Test			Line R	D Model Manu:				
2nd Line Release Detection:]	2nd Line R	D Model Manu:				
Line TT Date:				-		ction Test Date:				
							-			
Pressure Lines RD:	Mechanci	al Leak Detector			PL RC	Model/Manu:	Red Jac	ket FX1	DV	
STP Sump:	Uncontain	ed Sump Sen	sor:		ST	P Sump Flexes:	Booted			
Triennial STP Su	mp Test Date:			Annual	STP Sump Se	nsor Test Date:				
Underneath Dispensers:	Uncontain	ed Sump Sens	sor:	Un	derneath Dis	pensers Flexes:	Booted			
Triennial U	DC Test Date:			Ar	nual UDC Se	nsor Test Date:]	
Last Annual Walkthroo	gh Insp Date:		La	st Monthly W	alkthrough Ir	spection Date:			1	
Class A Operator Name:				c	lass A Certifie	cation Number:				
Class A Trainer:			Class A Trainin	g Date:		Class A State:				
Class B Operator Name:					lass B Certifie	ation Number:				
Class B Trainer:	<u> </u>		Class B Trainin	g Date:		Class B State:				
Class C Operator Name:					lass C Certific	cation Number:				
Class C Operator Name: Class C Trainer:			Class C Trainin			Class C State:				
class o trainer:			Class C Trainin	6 Date:		crass c state:				



Compliance Assistance Calendar

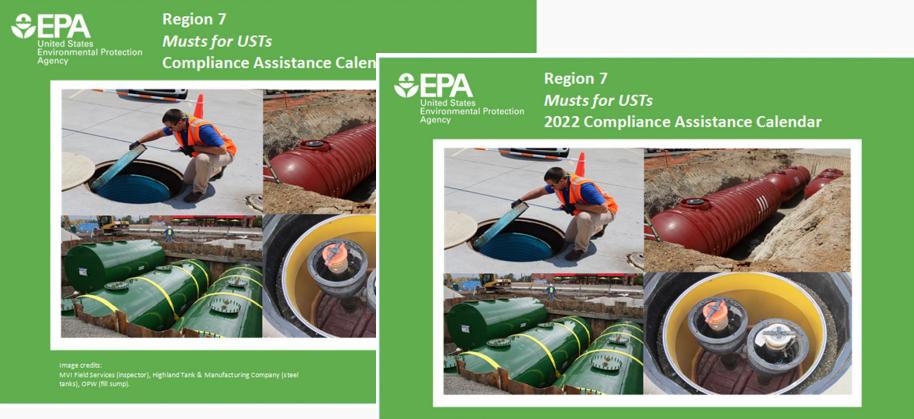
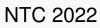


Image credits: MVI Field Services (inspector), Highland Tank & Manufacturing Company (steel tanks), OPW (fill sump).

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September 2022

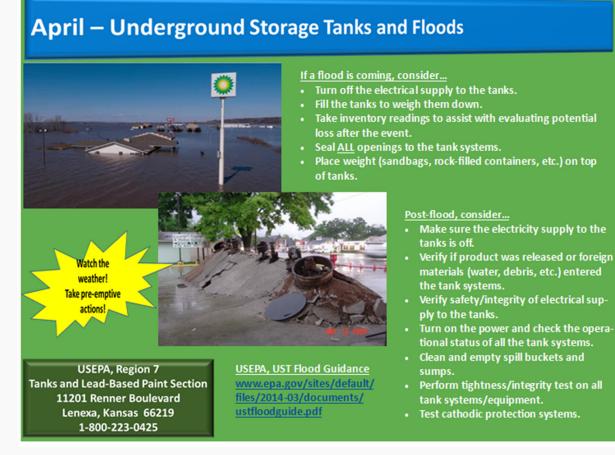


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Different aspect of UST operation covered each month



September 2022

NTC 2022



Walkthrough Inspection sheets included as tear-outs

Region 7 LCRD/TTPB/TLBP

11201 Renner BLVD

Lenexa, Kansas 66219



EPA Region 7 **30-Day Walkthrough** Inspection Checklist

US Environmental Protection Agency

Date of inspection

This form can hold information for up to four USTs. Make additional copies of this form if you have more than four USTs at your facility. 30-Day Walkthrough Inspections Checklists must be kept at least one year after the last inspection date on the form

This inspection is to be completed by a person with knowledge of the UST system. (Examples: trained A/B Operator or a trusted petroleum service technician). 30-Day Walkthrough Inspections must be conducted every 30 days. If problems are found during the walkthrough inspection, the person conducting the inspection must take action quickly to resolve these problems and avoid serious releases.

EPA-R7-USTFacID	
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Facility Name

Facility Address

acility City		Facility St	ate	Facility Zip Co	ode
Identify tank or compartment by providing	Tank or compartment number:				
number, capacity in gallons, and contents	Capacity, in gallons:				
oontonio	Contents:				
Release Detection	on Equipment				
Is the release det operating?	ection equipment	Yes No D NA D	Yes No No NA D	Yes No No NA D	Yes No D NA D
Are any release of sounding or flash		Yes D No D NA D			
Is there anything u with the operation detection equipment	of the release	Yes D No D NA D	Yes D No D NA D	Yes No No NA D	Yes No No NA D
Release Detection	on Records				
Do the release de indicate a passin		Yes No D NA D	Yes I No I NA I	Yes D No D NA D	Yes D No D NA D
Are the release d current?	etection records	Yes No D NA D	Yes D No D NA D	Yes D No D NA D	Yes D No D NA D
Spill Containme	nt Area				
Is the spill bucket in free of cracks, hole defects?		Yes D No D NA D	Yes□ No□ NA□	Yes□ No□ NA□	Yes⊡ No⊡ NA⊡
Does the test/gauge for double-walled spi using vacuum, press interstices?		Yes D No D NA D			
Is the spill bucket water, or debris?		Yes No D NA D	Yes 🗆 No 🗆 NA 🗆	Yes No D NA D	Yes D No D NA D
Is the fill cap und does it fit secure!	amaged and y on the fill pipe?	Yes No D NA D	Yes No D NA D	Yes No No NA D	Yes D No D NA D
Is the fill pipe free of that affect fuel deliv	of any obstructions	Yes D No D			

EPA Region 7 Annual Walkthrough Inspection Checklist US Environmental Protection Agency Region 7 LCRD/TTPB/TLBP 11201 Renner BLVD Lenexa, Kansas 66219

Annual Walkthrough Inspections must be conducted every twelve months (not to exceed 365 days after previous inspection date). You must keep records of Annual Walkthrough Inspections including any issues identified and corrective actions taken for at least one year. This form can hold information for documenting an UST walkthrough inspection for as many as four USTs. Make additional copies of this form if you have more than four USTs at your facility.

Owners may want to have this inspection is to be completed by a person with knowledge of the UST system. (Examples: trained A/B Operator or a trusted petroleum service technician). If problems are found during the walkthrough inspection, the person conducting the inspection must take action quickly to resolve these problems and avoid serious releases.

EPA-R7-USTFacl	D		Date of inspecti	on	
acility Name					
acility Address					
acility City	se Detection Equi		ate	Facility Zip Co	ode
Tank Gauge Mea	asuring Stick				
Are the numbers	legible and is the l	pottom button in go	od condition?		Yes No
Identify tank or compartment by	Tank or Compartment no.				
providing number, capacity in	Capacity, in gallons:				
gallons, and contents	Product:				
		nt (Give date of las	st Operability Chec	k/Recertification:	_/_/
Is release detecti operating without unusual operating	alarms or other	Yes No No NA D	Yes No No NA NA	Yes No No NA NA	Yes No I NA D
Has the release detection equipment passed the last operability check/recertification done in the last 12 months?		Yes D No D NA D	Yes D No D NA D	Yes D No D NA D	Yes No I NA D
Tank Submersib	ole Turbine Pump				
Are there any debris in the bottom of the STP sump? ¹		Yes No No NA	Yes No No NA	Yes No No NA	Yes No No NA
Is there any liquid of bottom of the STP	sump?1	Yes No No NA D	Yes No No NA D	Yes No No NA	Yes No I
Are the walls of the undamaged with no where product coul sump?	o apparent areas	Yes No No NA	Yes No No NA D	Yes No No NA	Yes No I NA D

Note any corrective actions in the UST System Maintenance Record on page 2.



Space provided to note compliance testing dates

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	01	02	03	04	05
07	08	09	10		12
14	15	16	17	18	19
21	22	23	24	25	26
28	01	02	03	04	05
	08	09	10	11	12
	31 07 14 21 28	31 01 07 08 14 15 21 22 28 01	31 01 02 07 08 09 14 15 16 21 22 23 28 01 02	31 01 02 03 07 08 09 10 14 15 16 17 21 22 23 24 28 01 02 03	31 01 02 03 04 07 08 09 10 11 14 15 16 17 18 21 22 23 24 25 28 01 02 03 04

Next Steps for FFY 2023

- Individual Facility Calls
- Monthly Conference Calls
- 2023 Calendar
- In-person Compliance Assistance Visits

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