

US EPA ARCHIVE DOCUMENT

Semiannual Report Of UST Performance Measures End Of Fiscal Year 2011 (October 1, 2010 – September 30, 2011)

Where does EPA get the performance data?

Twice each year, EPA collects data from states and territories regarding underground storage tank (UST) performance measures and makes the data publicly available. EPA directly provides data on work in Indian country, since the Agency implements the program for those sites. This data includes information such as the number of active and closed tanks, releases reported, cleanups initiated and completed, facilities in compliance with UST requirements, and inspections. EPA compiles the data and presents it in table format for all states, territories, and Indian country.

What are the UST performance measures?

The most current definitions for the UST performance measures are available on EPA's website www.epa.gov/oust/cat/camarchv.htm under **Definitions**.

What is in the end of fiscal year (FY) 2011 report?

	Page
UST Corrective Action Measures For End Of FY 2011	
Alphabetical By State Within Region	1
National Totals	5
UST National Backlog Graph	6
UST Compliance Measures For End Of FY 2011	7
States With More Stringent SOC Requirements	9
Inspection/Delivery Prohibition Actions End Of FY 2011	11

How does the UST program's performance compare with its goals?

FY 2011 UST Program Performance	FY 2011 UST Program Goal
Missed the FY 2011 goal but completed 11,169 cleanups (or 91.2 percent), including 42 in Indian country	Complete 12,250 cleanups, including 38 in Indian country
Exceeded the FY 2011 goal by achieving a significant operational compliance rate of 70.9 percent	Achieve a significant operational compliance rate of 66 percent
Exceeded the FY 2011 goal by decreasing newly-confirmed releases to 5,998	Decrease newly-confirmed releases to fewer than 8,550

What other highlights are included in the end of FY 2011 report?

- There are 590,104 active USTs (at approximately 212,000 sites) which are regulated by EPA's UST program
- Since the 1984 inception of the UST program, 1,768,193 USTs have been closed
- Of the 501,723 releases reported since the beginning of the UST program, 413,740 (or 82.5 percent) have been cleaned up, leaving a backlog of 87,983 remaining to be cleaned up
 - LUST Recovery Act money contributed significantly to closing sites during FYs 2010 and 2011 and are included in the UST program's end of year cleanup totals; 1,617 sites have been closed overall using LUST Recovery Act money, 1,025 of which were closed in FY 2011



- 99,488 on-site inspections at federally-regulated UST facilities were conducted between October 2010 and September 2011; of those:
 - 99,159 were conducted by states, territories, and third-party inspectors
 - 329 were conducted by EPA and credentialed tribal inspectors in Indian country

Where can I find performance data from previous years?

EPA's website www.epa.gov/oust/cat/camarchv.htm provides the most current report, as well as historical reports beginning with FY 1988, the first year reports were developed. Reports are listed beginning with the most recent first.

For more information, contact Steven McNeely, EPA's Office of Underground Storage Tanks, at mcneely.steven@epa.gov or 703-603-7164.

UST Corrective Action Measures for End of FY 2011 (Data through September 30, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog
			Actions This Year	Cumulative		Actions This Year	Cumulative	
ONE								
CT	6,523	26,292	69	2,809	2,760	64	1,935	874
MA	9,732	29,711	52	6,281	6,251	81	5,939	342
ME	2,879	13,025	43	2,611	2,577	49	2,557	54
NH	3,049	11,611	44	2,501	2,501	66	1,813	688
RI	1,620	8,288	8	1,344	1,344	28	1,131	213
VT	3,198	5,800	15	2,041	2,031	46	1,397	644
Subtotal	27,001	94,727	231	17,587	17,464	334	14,772	2,815
TWO								
NJ	15,112	60,198	100	10,651	9,800	199	6,732	3,919
NY	25,466	93,819	428	28,330	28,369	629	26,343	1,987
PR	4,507	5,805	27	1,069	830	6	501	568
VI	144	278	0	24	23	2	15	9
Subtotal	45,229	160,100	555	40,074	39,022	836	33,591	6,483
THREE								
DC	644	3,299	6	890	876	35	784	106
DE	1,324	7,133	64	2,595	2,507	88	2,434	161
MD	8,248	34,637	225	11,645	11,457	281	11,199	446
PA	23,538	63,877	221	15,283	15,211	488	12,609	2,674
VA	18,626	60,862	163	11,872	11,802	244	11,417	455
WV	5,189	19,872	52	3,329	3,254	94	2,538	791
Subtotal	57,569	189,680	731	45,614	45,107	1,230	40,981	4,633

Definition of confirmed releases, cleanups initiated, and cleanups completed are on OUST's website at <http://www.epa.gov.cat.mamarchv.htm>

UST Corrective Action Measures for End of FY 2011 (Data through September 30, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog
			Actions This Year	Cumulative		Actions This Year	Cumulative	
FOUR								
AL	18,365	30,023	106	11,573	11,441	114	10,258	1,315
FL	23,004	109,430	171	26,444	16,304	629	12,937	13,507
GA	29,445	48,473	201	12,743	12,525	369	11,218	1,525
KY	11,061	38,480	489	15,643	15,650	523	13,801	1,842
MS	8,443	23,234	107	7,261	7,166	106	6,942	319
NC	27,012	67,977	157	24,980	22,984	464	20,052	4,928
SC	11,794	32,893	94	9,533	9,248	238	6,880	2,653
TN	16,441	36,830	173	14,330	14,316	171	13,827	503
Subtotal	145,565	387,340	1,498	122,507	109,634	2,614	95,915	26,592
FIVE								
IL	21,155	66,233	334	25,062	23,488	829	19,777	5,285
IN	13,333	37,792	162	9,293	9,070	204	7,251	2,042
MI	19,051	68,948	165	22,144	21,673	171	13,053	9,091
MN	12,608	32,210	163	10,784	10,608	247	10,211	573
OH	22,454	44,168	542	28,945	28,223	694	26,607	2,338
WI	14,628	67,320	125	19,005	18,747	262	17,133	1,872
Subtotal	103,229	316,671	1,491	115,233	111,809	2,407	94,032	21,201

Definition of confirmed releases, cleanups initiated, and cleanups completed are on OUST's website at <http://www.epa.gov.cat.mamarchv.htm>

UST Corrective Action Measures for End of FY 2011 (Data through September 30, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog
			Actions This Year	Cumulative		Actions This Year	Cumulative	
SIX								
AR	9,057	21,022	26	1,535	1,252	40	1,255	280
LA	11,640	33,395	233	4,335	4,335	327	3,355	980
NM	3,849	12,624	19	2,584	1,902	34	1,862	722
OK	10,463	26,799	67	4,883	4,869	111	4,586	297
TX	51,612	117,415	251	26,310	25,323	700	24,431	1,879
Subtotal	86,621	211,255	596	39,647	37,681	1,212	35,489	4,158
SEVEN								
IA	7,291	22,866	60	6,081	5,784	161	4,939	1,142
KS	6,741	20,446	48	4,996	4,895	123	3,591	1,405
MO	9,395	30,866	85	6,652	6,609	136	5,674	978
NE	6,669	14,748	44	6,234	4,974	128	4,676	1,558
Subtotal	30,096	88,926	237	23,963	22,262	548	18,880	5,083
EIGHT								
CO	7,591	22,049	206	7,666	7,464	233	6,905	761
MT	3,145	12,535	21	3,015	2,868	46	2,011	1,004
ND	2,164	7,297	2	849	839	3	803	46
SD	2,949	7,069	18	2,504	2,464	49	2,479	25
UT	3,861	13,321	59	4,612	4,527	75	4,195	417
WY	1,815	7,967	2	2,629	2,043	95	1,444	1,185
Subtotal	21,525	70,238	308	21,275	20,205	501	17,837	3,438

Definition of confirmed releases, cleanups initiated, and cleanups completed are on OUST's website at <http://www.epa.gov.cat.mamarchv.htm>

UST Corrective Action Measures for End of FY 2011 (Data through September 30, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog
			Actions This Year	Cumulative		Actions This Year	Cumulative	
NINE								
AS	16	52	0	8	7	0	7	1
AZ	6,977	21,147	44	8,596	8,141	103	7,814	782
CA	38,008	128,590	131	43,678	39,263	1,016	35,116	8,562
GU	255	451	0	139	139	1	117	22
HI	1,585	5,416	22	2,037	2,005	50	1,860	177
MP	67	29	0	11	10	0	10	1
NV	3,807	7,325	6	2,467	2,472	17	2,318	149
Subtotal	50,715	163,010	203	56,936	52,037	1,187	47,242	9,694
TEN								
AK	1,080	6,590	26	2,339	2,300	38	1,924	415
ID	3,467	10,628	10	1,453	1,423	11	1,320	133
OR	5,810	26,198	44	7,271	7,049	132	6,263	1,008
WA	9,610	36,941	65	6,540	6,137	77	4,533	2,007
Subtotal	19,967	80,357	145	17,603	16,909	258	14,040	3,563

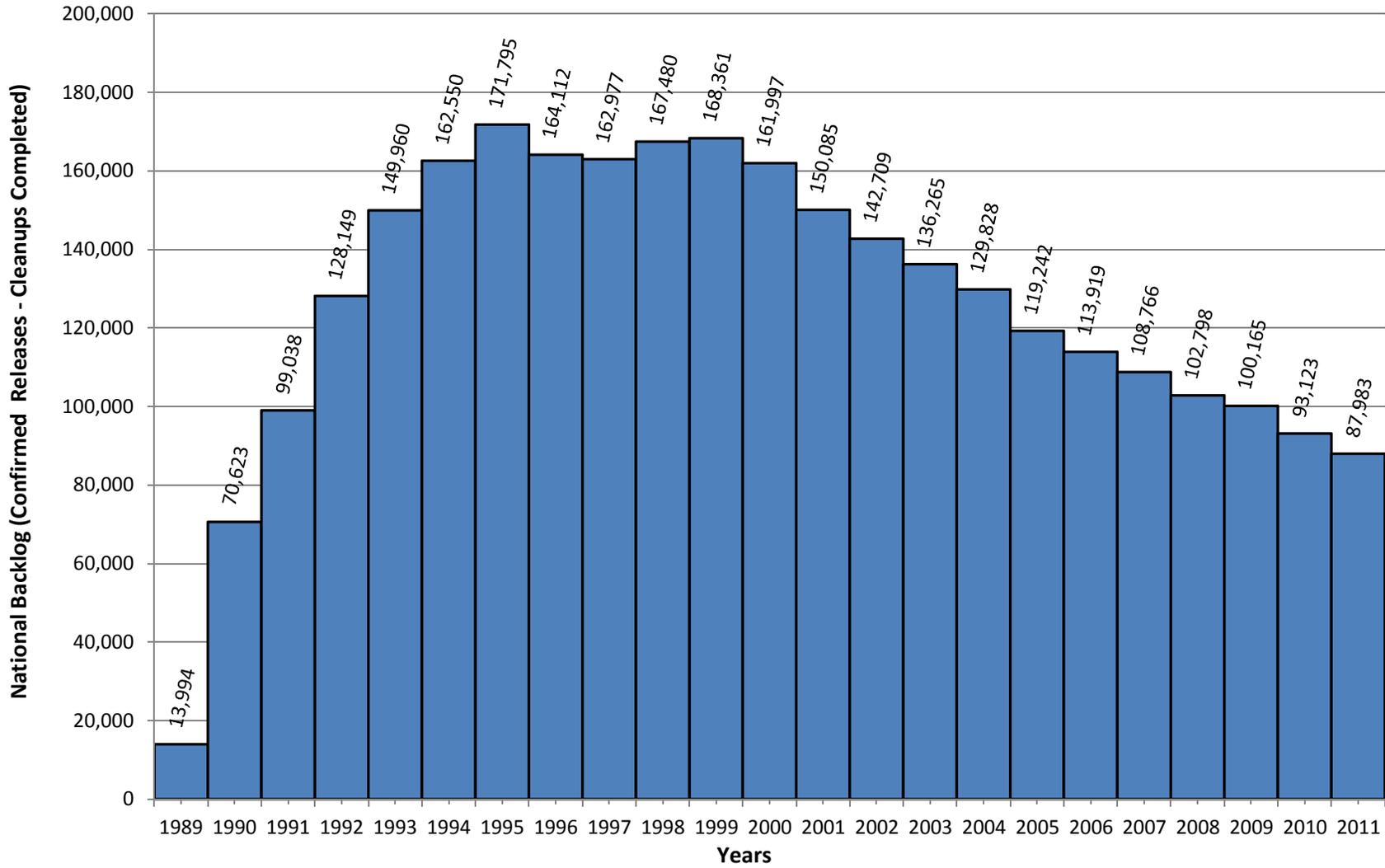
Definition of confirmed releases, cleanups initiated, and cleanups completed are on OUST's website at <http://www.epa.gov.cat.mamarchv.htm>

UST Corrective Action Measures for End of FY 2011 (Data through September 30, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog
			Actions This Year	Cumulative		Actions This Year	Cumulative	
REGIONAL CORRECTIVE ACTIONS FOR INDIAN COUNTRY								
REGION 1	9	5	0	0	0	0	0	0
REGION 2	132	28	0	6	2	0	5	1
REGION 3	0	0	0	0	0	0	0	0
REGION 4	63	62	0	14	15	1	13	1
REGION 5	463	996	0	223	213	2	160	63
REGION 6	306	274	2	59	59	7	59	0
REGION 7	91	93	0	20	21	1	13	7
REGION 8	543	1,969	0	509	478	15	344	165
REGION 9	635	1,457	0	275	221	10	204	71
REGION 10	345	1,015	1	178	175	6	163	15
SUBTOTAL	2,587	5,899	3	1,284	1,184	42	961	323
NATIONAL TOTAL								
	590,104	1,768,193	5,998	501,723	473,314	11,169	413,740	87,983

Definitions of confirmed releases, cleanups initiated, and cleanups completed are on OUST's website at <http://www.epa.gov/oust/cat/camarchv.htm>

UST National Backlog: FY 1989 Through End Of FY 2011



**UST Compliance Measures
for End Of FY 2011 (October 1, 2010 - September 30, 2011)**

Region / State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
ONE			
CT*	90%	81%	77%
MA	41%	79%	36%
ME	66%	64%	62%
NH	66%	78%	54%
RI*	87%	70%	65%
VT*	75%	78%	72%
SUBTOTAL	65%	77%	57%
TWO			
NJ	93%	91%	86%
NY	86%	77%	71%
PR	52%	54%	44%
VI	83%	87%	78%
SUBTOTAL	85%	80%	73%
THREE			
DC	91%	84%	79%
DE	84%	90%	81%
MD	93%	96%	91%
PA	92%	87%	80%
VA	81%	71%	64%
WV	88%	80%	74%
SUBTOTAL	88%	82%	76%

Region / State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
FOUR			
AL	89%	74%	74%
FL	98%	79%	77%
GA	86%	72%	67%
KY	72%	76%	62%
MS	78%	82%	70%
NC	83%	79%	73%
SC	88%	86%	79%
TN	88%	84%	77%
SUBTOTAL	87%	78%	73%
FIVE			
IL*	73%	71%	55%
IN	85%	84%	76%
MI*	83%	58%	52%
MN	72%	77%	66%
OH	89%	68%	63%
WI*	76%	88%	68%
SUBTOTAL	80%	73%	62%
SIX			
AR	69%	74%	58%
LA	77%	74%	64%
NM	75%	81%	66%
OK	81%	84%	73%
TX	92%	86%	83%
SUBTOTAL	86%	83%	76%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 10/1/10 through 9/30/11. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Idaho, Illinois, Michigan, Rhode Island, Vermont, and Wisconsin indicated they had done so, as described in the following section. Furthermore, states have different approaches to targeting inspections. For example, some states focus inspections on suspected non-compliant facilities, while other states conduct random inspections.

* States reporting based on requirements more stringent than the federal SOC requirements

** DNA = Data Not Available N/A = Not Applicable

**UST Compliance Measures
for End Of FY 2011 (October 1, 2010 - September 30, 2011)**

Region / State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
SEVEN			
IA	93%	78%	71%
KS	60%	94%	59%
MO	85%	96%	83%
NE	82%	72%	62%
SUBTOTAL	81%	86%	70%
EIGHT			
CO	85%	79%	77%
MT	98%	96%	95%
ND	89%	85%	81%
SD	77%	80%	77%
UT	83%	83%	73%
WY	97%	96%	93%
SUBTOTAL	87%	77%	71%
NINE			
AS	**DNA	**DNA	**DNA
AZ	89%	83%	80%
CA	86%	74%	67%
GU	97%	81%	81%
HI	99%	92%	91%
MP	100%	100%	100%
NV	92%	88%	82%
SUBTOTAL	87%	81%	73%

Region / State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
TEN			
AK	92%	84%	78%
ID*	77%	77%	63%
OR	96%	92%	90%
WA	84%	75%	67%
SUBTOTAL	87%	81%	73%
INDIAN COUNTRY			
REGION 1	**DNA	**DNA	**DNA
REGION 2	67%	67%	67%
REGION 3	**N/A	**N/A	**N/A
REGION 4	88%	100%	88%
REGION 5	72%	63%	52%
REGION 6	85%	90%	77%
REGION 7	**DNA	**DNA	**DNA
REGION 8	84%	72%	66%
REGION 9	68%	73%	55%
REGION 10	70%	70%	58%
SUBTOTAL	75%	73%	61%
NATIONAL TOTAL			
TOTAL	84.1%	78.9%	70.9%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 10/1/10 through 9/30/11. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Idaho, Illinois, Rhode Island, Vermont, and Wisconsin indicated they had done so, as described in the following section. Furthermore, states have different approaches to targeting inspections. For example, some states focus inspections on suspected non-compliant facilities, while other states conduct random inspections.

* States reporting based on requirements more stringent than the federal SOC requirements

** DNA = Data Not Available N/A = Not Applicable

States With Requirements More Stringent Than The Federal Significant Operational Compliance Requirements

CONNECTICUT

Release Prevention: Operation and Maintenance of Cathodic Protection

- Lining not allowed.

Release Detection: Testing

- Tanks and piping require weekly and monthly monitoring for releases and records must be available (for 2 of the most recent consecutive months and for 8 of the last 12 months).
- Statistical Inventory Reconciliation (SIR) not allowed as a stand-alone method.

IDAHO

Release Prevention: Operation and Maintenance of Cathodic Protection

- Three 60-day rectifier inspection checks are required.
- Two three-year system checks are required for impressed current and galvanic.

Release Detection: Testing

- Records required for the past 12 months.

Other

- Percent of UST facilities in compliance with both release detection and release prevention also factors in financial responsibility and EPCRA requirements, such as operator training and secondary containment.

ILLINOIS

Release Detection: Testing

- Owner/operator must produce records within 30 minutes of arrival of inspector.

MICHIGAN

Release Detection: Required Methods

- Owners/operators must have inventory control plus another method of release detection.

RHODE ISLAND

Release Prevention: Operation and Maintenance

- All tanks and piping are required to be tightness tested after a repair. No exemptions.

Release Prevention: Operation and Maintenance of Cathodic Protection

- Impressed current cathodic protection systems are required to be tested every 2 years.
- Sacrificial anode systems are required to be tested every 3 years.

Release Detection: Testing

- Records required for the past 36 months.
- Inventory control is required for all tanks (single-walled and double-walled).
- The automatic tank gauge (ATG) has to be checked monthly and have an annual test conducted.
- Tightness testing schedule is different than the federal requirement; it depends on the type of tank.
 - o Tank tightness must be performed on all single walled tanks.
 - o Tightness tests must be performed every 5 years after the installation of the ATG until the tank has been installed for 20 years and every 2 years thereafter.
 - o UST systems upgraded with interior lining and/or cathodic protections are not required to have an ATG for 10 years after the upgrade. Tank tightness testing must be conducted annually during these 10 years. After 10 years, an ATG is required and tank tightness testing must be performed every 5 years until the tank has been installed for 20 years and then every 2 years thereafter. The results of all tightness tests shall be maintained for 3 years beyond the life of the facility.
- Groundwater or vapor monitoring not accepted as a method of leak detection.
- SIR not accepted.

VERMONT**Release Prevention: Operation and Maintenance of Cathodic Protection**

- Lining not allowed unless with impressed current.

Release Detection: Method Presence and Performance Requirements

- Weekly monitoring required for tank and piping. Records must be available for the two most recent consecutive months and for 8 of the last 12 months.

Release Detection: Testing

- Inventory control /Tank Tightness Testing (TTT) not allowed as a release detection method after 6/30/98.
- Manual Tank Gauge (MTG) allowed alone up to 550 gallons; 551-1,000 gallons, MTG with annual TTT.

WISCONSIN**Release Prevention: Operation and Maintenance of Cathodic Protection**

- Require annual cathodic protection test.

Release Prevention: Spill Prevention

- Require USTs to be equipped with overfill prevention equipment that will operate as follows (NFPA 30-2.6.1.4 – 2000 and 2003 version):
 - Automatically shut off the flow of liquid into the tank when the tank is no more than 95% full;
 - Alert the transfer operator when the tank is no more than 90% full by restricting the flow of liquid into the tank or triggering the high-level alarm; and,
 - Other methods approved by the authority having jurisdiction.

Release Detection: Testing

- Require NFPA 30A09.2.1 (2000 and 2003 versions). Accurate daily inventory records shall be maintained and reconciled for all liquid fuel storage tanks for indication of possible leakage from tanks or piping. The records shall be kept on the premises or shall be made available to the authority having jurisdiction for the inspection within 24 hours of a written or verbal request. The records shall include, as a minimum and by product, daily reconciliation between sales, use, receipts, and inventory on hand. If there is more than one storage system serving an individual pump or dispensing device for any product, the reconciliation shall be maintained separately for each system.

Release Detection: Deferment

- No exclusion or deferment for "remote" emergency generator tanks.

Other

- Require annual permit to operate that includes verification of financial responsibility.

**Inspection/Delivery Prohibition Actions
for End of FY 2011 (October 1, 2010 - September 30, 2011)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
ONE		
CT	1,209	5
MA	435	0
ME	1,661	0
NH	342	28
RI	249	3
VT	375	2
SUBTOTAL	4,271	38
TWO		
NJ	1,566	152
NY	2,577	0
PR	450	0
VI	30	0
SUBTOTAL	4,623	152
THREE		
DC	131	0
DE	172	8
MD	1,127	21
PA	2,217	62
VA	2,104	4
WV	544	1
SUBTOTAL	6,295	96

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
FOUR		
AL	2,956	245
FL	8,345	0
GA	3,728	665
KY	1,840	0
MS	1,127	145
NC	3,113	196
SC	3,742	527
TN	2,202	110
SUBTOTAL	27,053	1,888
FIVE		
IL	1,814	303
IN	1,518	0
MI	2,596	148
MN	1,775	23
OH	3,247	0
WI	4,797	29
SUBTOTAL	15,747	503
SIX		
AR	1,321	84
LA	1,061	26
NM	1,151	0
OK	3,264	255
TX	5,233	2,442
SUBTOTAL	12,030	2,807

Not all states fully implement delivery prohibition at this time, and some states prohibit deliveries primarily for registration violations.

* DNA = Data Not Available N/A = Not Applicable

**Inspection/Delivery Prohibition Actions
for End of FY 2011 (October 1, 2010 - September 30, 2011)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
SEVEN		
IA	1,910	19
KS	1,183	101
MO	1,224	6
NE	766	0
SUBTOTAL	5,083	126
EIGHT		
CO	2,200	15
MT	403	1
ND	275	0
SD	405	0
UT	1,194	27
WY	365	1
SUBTOTAL	4,842	44
NINE		
AS	0	0
AZ	642	0
CA	13,650	132
GU	47	0
HI	507	0
MP	29	0
NV	1,056	1
SUBTOTAL	15,931	133

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
TEN		
AK	441	8
ID	909	0
OR	521	75
WA	1,413	0
SUBTOTAL	3,284	83
INDIAN COUNTRY		
REGION 1	0	0
REGION 2	3	0
REGION 3	* N/A	* N/A
REGION 4	9	0
REGION 5	82	0
REGION 6	52	0
REGION 7	0	0
REGION 8	68	0
REGION 9	81	0
REGION 10	34	0
SUBTOTAL	329	0
NATIONAL TOTAL		
TOTAL	99,488	5,870

Not all states fully implement delivery prohibition at this time, and some states prohibit deliveries primarily for registration violations.

* DNA = Data Not Available N/A = Not Applicable