

Semiannual Report Of UST Performance Measures Mid Fiscal Year 2011 – As Of March 31, 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 mid fiscal year (FY) 2011 report?

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How does the UST program's performance at mid FY 2011 compare with its FY 2011 goals and mid FY 2010 performance?

Mid FY 2011 UST Program Performance	Compare With FY 2011 UST Program Goal	Compare With Mid FY 2010 UST Program Performance
Completed 5,721 cleanups (including 26 in Indian country)	Complete 12,250 cleanups, including 38 in Indian country	At mid FY 2010, 5,433 cleanups (including 21 in Indian country) were completed
71.3 percent significant operational compliance rate at mid year	Achieve a significant operational compliance rate of 66 percent	At mid FY 2010, the significant operational compliance rate was 67.6 percent
Confirmed 3,003 new releases, well below the midpoint of EPA's goal to decrease confirmed releases	Decrease newly-confirmed releases to fewer than 8,550	At mid FY 2010, 2,998 new releases were confirmed

What other highlights are included in the mid FY 2011 report?

- There are 594,823 active USTs (at approximately 214,000 sites) which are regulated by EPA's UST program
- Since the 1984 inception of the UST program, 1,758,422 USTs have been closed



- Of the 498,295 releases reported since the beginning of the UST program, 407,680 (or 81.8 percent) have been cleaned up, leaving a backlog of 90,615 remaining to be cleaned up
- 45,642 on-site inspections at federally-regulated UST facilities were conducted between October 2010 and March 2011; of those:
 - 45,585 were conducted by states, territories, and third-party inspectors
 - 57 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 Mid FY 2011 (Cumulative as of March 31, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
ONE									
CT	6,534	26,008	40	2,780	2,722	29	1,900	880	121
MA	11,514	27,816	20	6,249	6,218	36	5,895	354	5,261
ME	2,888	13,000	29	2,597	2,565	28	2,536	61	611
NH	3,082	11,554	37	2,494	2,491	41	1,788	706	717
RI	1,638	8,249	4	1,340	1,340	9	1,112	228	27
VT	3,172	5,735	6	2,032	2,022	29	1,380	652	318
SUBTOTAL	28,828	92,362	136	17,492	17,358	172	14,611	2,881	7,055
TWO									
NJ	15,348	59,723	80	10,631	9,780	54	6,587	4,044	58
NY	25,960	92,729	186	28,088	28,104	392	26,119	1,969	1,394
PR	4,491	5,746	0	1,042	824	2	497	545	190
VI	144	278	0	24	23	0	13	11	14
SUBTOTAL	45,943	158,476	266	39,785	38,731	448	33,216	6,569	1,656
THREE									
DC	654	3,271	4	884	869	28	775	109	271
DE	1,342	7,095	32	2,562	2,467	40	2,382	180	421
MD	7,707	34,397	123	11,554	11,355	146	11,064	490	345
PA	23,591	63,621	123	15,185	15,098	294	12,434	2,751	28
VA	18,728	60,602	77	11,774	11,712	111	11,282	492	63
WV	5,386	19,817	28	3,305	3,165	31	2,450	855	12
SUBTOTAL	57,408	188,803	387	45,264	44,666	650	40,387	4,877	1,140

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

UST Corrective Action Measures for Mid FY 2011 (Cumulative as of March 31, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
FOUR									
AL	18,410	29,950	46	11,513	11,380	32	10,176	1,337	473
FL	23,274	108,923	71	26,344	16,043	320	12,628	13,716	204
GA	29,473	48,283	93	12,635	12,401	186	11,035	1,600	2
KY	11,269	38,216	295	14,942	14,910	256	12,927	2,015	224
MS	8,505	23,151	57	7,211	7,111	54	6,890	321	131
NC	27,059	67,814	78	24,901	22,949	233	19,821	5,080	679
SC	11,807	32,841	42	9,481	9,182	102	6,744	2,737	99
TN	16,390	36,859	91	14,248	14,234	97	13,753	495	69
SUBTOTAL	146,187	386,037	773	121,275	108,210	1,280	93,974	27,301	1,881
FIVE									
IL	21,375	65,906	145	24,873	23,315	413	19,361	5,512	1,892
IN	13,386	37,708	80	9,211	8,963	69	7,116	2,095	307
MI	19,146	68,771	73	22,052	21,611	95	12,983	9,069	82
MN	12,549	32,184	78	10,699	10,522	144	10,108	591	708
OH	22,649	43,873	271	28,674	27,911	361	26,274	2,400	418
WI	14,731	67,102	60	18,972	18,676	126	16,997	1,975	389
SUBTOTAL	103,836	315,544	707	114,481	110,998	1,208	92,839	21,642	3,796

UST Corrective Action Measures for Mid FY 2011 (Cumulative as of March 31, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
SIX									
AR	9,088	20,937	9	1,512	1,225	23	1,229	283	26
LA	11,738	33,194	92	4,194	4,194	184	3,212	982	855
NM	3,882	12,570	10	2,575	1,894	13	1,841	734	87
OK	10,551	26,620	34	4,850	4,836	53	4,528	322	150
TX	51,819	116,929	119	26,178	25,149	354	24,085	2,093	600
SUBTOTAL	87,078	210,250	264	39,309	37,298	627	34,895	4,414	1,718
SEVEN									
IA	7,486	22,477	24	6,062	5,702	84	4,860	1,202	250
KS	6,745	20,363	20	4,969	4,872	64	3,533	1,436	125
MO	9,443	30,740	50	6,644	6,618	73	5,638	1,006	396
NE	6,723	14,675	24	6,213	4,918	72	4,619	1,594	14
SUBTOTAL	30,397	88,255	118	23,888	22,110	293	18,650	5,238	785
EIGHT									
CO	7,695	21,918	103	7,563	7,401	124	6,796	767	43
MT	3,135	12,514	8	3,002	2,859	19	1,984	1,018	48
ND	2,216	7,545	0	887	864	1	823	64	5
SD	2,984	7,038	8	2,494	2,445	17	2,447	47	23
UT	3,881	13,269	24	4,574	4,502	31	4,151	423	6
WY	1,836	7,944	1	2,628	2,044	56	1,408	1,220	73
SUBTOTAL	21,747	70,228	144	21,148	20,115	248	17,609	3,539	198

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

UST Corrective Action Measures for Mid FY 2011 (Cumulative as of March 31, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
NINE									
AS	16	52	0	8	7	0	7	1	1
AZ	7,014	21,104	25	8,577	8,125	59	7,770	807	0
CA	38,020	128,294	88	43,618	41,226	558	34,634	8,984	0
CNMI	67	29	0	11	10	0	10	1	0
GU	258	448	0	139	138	0	116	23	0
HI	1,590	5,407	15	2,032	1,998	26	1,824	208	0
NV	3,703	7,151	3	2,464	2,465	7	2,307	157	52
SUBTOTAL	50,668	162,485	131	56,849	53,969	650	46,668	10,181	53
TEN									
AK	1,152	6,504	9	2,322	2,294	14	1,885	437	47
ID	3,506	10,581	2	1,445	1,414	5	1,312	133	12
OR	5,806	26,169	19	7,248	7,027	64	6,196	1,052	56
WA	9,657	36,828	45	6,520	6,411	36	4,492	2,028	39
SUBTOTAL	20,121	80,082	75	17,535	17,146	119	13,885	3,650	154

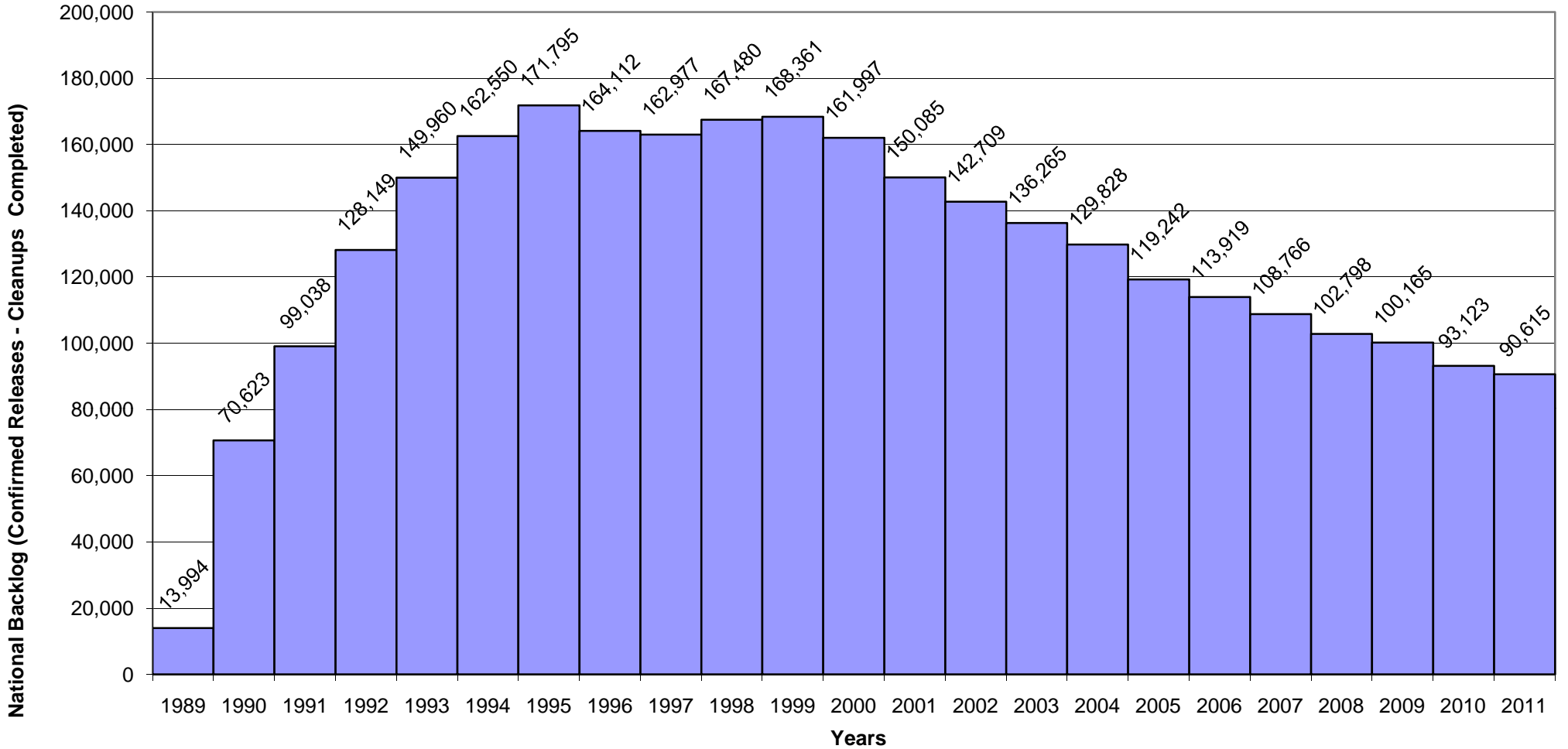
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UST Corrective Action Measures for Mid FY 2011 (Cumulative as of March 31, 2011)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
REGIONAL CORRECTIVE ACTIONS FOR INDIAN COUNTRY									
REGION 1	7	5	0	0	0	0	0	0	0
REGION 2	132	28	0	6	2	0	5	1	0
REGION 3	0	0	0	0	0	0	0	0	0
REGION 4	64	61	0	14	14	0	12	2	2
REGION 5	477	1,027	0	222	213	0	158	64	0
REGION 6	311	269	2	59	57	0	51	8	1
REGION 7	91	93	0	20	21	1	13	7	0
REGION 8	541	1,969	0	498	457	12	343	155	5
REGION 9	645	1,437	0	273	217	8	202	71	0
REGION 10	342	1,011	0	177	174	5	162	15	3
SUBTOTAL	2,610	5,900	2	1,269	1,155	26	946	323	11
NATIONAL TOTAL									
	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
NATIONAL TOTAL	594,823	1,758,422	3,003	498,295	471,756	5,721	407,680	90,615	18,447

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

UST National Backlog: FY 1989 Thru Mid FY 2011



**UST Compliance Measures
for Mid FY 2011 (as of March 31, 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	86%	82%	76%
MA	**DNA	**DNA	**DNA
ME	80%	68%	62%
NH	69%	71%	51%
*RI	81%	73%	62%
*VT	79%	81%	74%
SUBTOTAL	80%	77%	68%
TWO			
NJ	94%	92%	87%
NY	87%	77%	72%
PR	45%	38%	36%
VI	83%	87%	85%
SUBTOTAL	85%	78%	74%
THREE			
DC	81%	83%	70%
DE	84%	81%	74%
MD	97%	98%	94%
PA	92%	85%	79%
VA	79%	69%	61%
WV	77%	70%	63%
SUBTOTAL	87%	80%	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
FOUR			
AL	90%	78%	74%
FL	98%	79%	78%
GA	87%	73%	68%
KY	70%	72%	57%
MS	77%	76%	65%
NC	81%	78%	73%
SC	87%	87%	78%
TN	85%	81%	75%
SUBTOTAL	86%	78%	72%
FIVE			
*IL	76%	71%	57%
IN	77%	85%	74%
MI	80%	57%	51%
MN	73%	78%	67%
OH	87%	66%	63%
*WI	86%	77%	69%
SUBTOTAL	80%	71%	62%
SIX			
AR	66%	72%	56%
LA	72%	83%	65%
NM	72%	81%	64%
OK	83%	86%	76%
TX	91%	88%	84%
SUBTOTAL	84%	85%	77%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 4/1/10 through 3/31/11. 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

**UST Compliance Measures
for Mid FY 2011 (as of March 31, 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	91%	87%	83%
KS	62%	93%	58%
MO	88%	93%	84%
NE	77%	64%	54%
SUBTOTAL	81%	85%	71%
EIGHT			
CO	83%	77%	74%
MT	97%	90%	87%
ND	89%	91%	83%
SD	76%	79%	65%
UT	83%	81%	71%
WY	96%	98%	93%
SUBTOTAL	86%	83%	77%
NINE			
AS	**DNA	**DNA	**DNA
AZ	90%	89%	86%
CA	78%	85%	70%
CNMI	100%	100%	100%
GU	83%	80%	80%
HI	98%	92%	90%
NV	88%	87%	78%
SUBTOTAL	81%	86%	74%

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	87%	82%	74%
*ID	77%	71%	58%
OR	93%	90%	87%
WA	84%	76%	67%
SUBTOTAL	85%	79%	72%
INDIAN COUNTRY			
REGION 1	**DNA	**DNA	**DNA
REGION 2	74%	63%	52%
REGION 3	**NA	**NA	**NA
REGION 4	**DNA	**DNA	**DNA
REGION 5	56%	59%	41%
REGION 6	88%	78%	74%
REGION 7	73%	73%	66%
REGION 8	83%	94%	80%
REGION 9	89%	84%	74%
REGION 10	72%	74%	59%
SUBTOTAL	78%	78%	65%
NATIONAL TOTAL			
TOTAL	83.7%	79.1%	71.3%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 4/1/10 through 3/31/11. 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

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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 EPAAct requirements, such as operator training and secondary containment.

ILLINOIS

Release Detection: Testing

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

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 Mid FY 2011 (as of March 31, 2011)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
ONE		
CT	569	2
MA	172	0
ME	240	0
NH	109	9
RI	110	2
VT	129	0
SUBTOTAL	1,329	13
TWO		
NJ	945	95
NY	1,140	0
PR	211	0
VI	6	0
SUBTOTAL	2,302	95
THREE		
DC	64	0
DE	62	6
MD	671	11
PA	1,006	48
VA	1,001	6
WV	175	1
SUBTOTAL	2,979	72

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
FOUR		
AL	1,456	104
FL	4,504	0
GA	1,919	662
KY	878	0
MS	494	35
NC	1,637	130
SC	1,921	129
TN	1,122	66
SUBTOTAL	13,931	1,126
FIVE		
IL	1,397	222
IN	753	0
MI	646	64
MN	611	11
OH	1,738	0
WI	1,432	26
SUBTOTAL	6,577	323
SIX		
AR	654	34
LA	279	20
NM	365	0
OK	1,559	118
TX	2,413	DNA
SUBTOTAL	5,270	172

The inspection and enforcement action reporting period is from 10/1/10 through 3/31/11. 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 Mid FY 2011 (as of March 31, 2011)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
SEVEN		
IA	37	12
KS	685	96
MO	600	6
NE	273	0
SUBTOTAL	1,595	114
EIGHT		
CO	1,489	7
MT	196	0
ND	12	0
SD	112	0
UT	317	0
WY	165	1
SUBTOTAL	2,291	8
NINE		
AS	0	0
AZ	250	0
CA	6,709	54
CNMI	6	0
GU	200	0
HI	14	0
NV	540	4
SUBTOTAL	7,719	58

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
TEN		
AK	233	6
ID	479	0
OR	262	35
WA	618	0
SUBTOTAL	1,592	41
INDIAN COUNTRY		
REGION 1	0	0
REGION 2	0	0
REGION 3	*N/A	*N/A
REGION 4	0	0
REGION 5	13	0
REGION 6	21	0
REGION 7	0	0
REGION 8	9	0
REGION 9	7	0
REGION 10	7	0
SUBTOTAL	57	0
NATIONAL TOTAL		
TOTAL	45,642	2,022

The inspection and enforcement action reporting period is from 10/1/10 through 3/31/11. Not all states fully implement delivery prohibition at this time, and some states prohibit deliveries primarily for registration violations.

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