

US EPA ARCHIVE DOCUMENT

Semiannual Report Of UST Performance Measures Mid Fiscal Year 2010 – As Of March 31, 2010

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. 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 Web site www.epa.gov/oust/cat/camarchv.htm under **Definitions**.

What is in the mid fiscal year (FY) 2010 report?

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

FY 2010 UST Program Goal	Mid FY 2010 UST Program Performance
Complete 12,250 cleanups, including 30 in Indian country	Completed 5,433 cleanups, which is 44 percent of FY 2010 goal, including 21 in Indian country
Achieve a significant operational compliance rate of 65.5 percent	67.6 percent significant operational compliance rate at mid year
Decrease newly-confirmed releases to fewer than 9,000	Confirmed 2,998 new releases, well below the midpoint of EPA's goal to decrease confirmed releases

What other highlights are included in the mid FY 2010 report?

- There are 607,068 active USTs (at approximately 221,000 sites) which are regulated by the UST regulations
- Since the 1984 inception of the UST program, 1,734,607 USTs have been closed
- Of the 491,572 leaks reported since the beginning of the UST program, 395,433 (or 80.4 percent) have been cleaned up, leaving a backlog of 96,129 remaining to be cleaned up
- 48,235 on-site inspections at federally-regulated UST facilities were conducted between October 2009 and March 2010; of those:
 - 48,188 were conducted by states, territories, and third-party inspectors
 - 47 were conducted by EPA and credentialed tribal inspectors in Indian country

Where can I find performance data from previous years?

EPA's Web site 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 Matt Young, EPA's Office of Underground Storage Tanks, at young.matthew@epa.gov or 703-603-7143.

UST Corrective Action Measures for Mid FY 2010 (Cumulative as of March 31, 2010)

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	9,577	26,464	28	2,700	2,645	27	1,844	856	121
MA	10,417	23,711	7	6,209	6,175	25	5,817	392	5,223
ME	2,986	12,854	14	2,514	2,492	15	2,479	35	577
NH	3,134	11,405	43	2,439	2,439	59	1,726	713	683
RI	1,657	8,192	6	1,330	1,330	13	1,091	239	27
VT	3,142	5,642	3	2,011	1,998	23	1,325	686	313
SUBTOTAL	30,913	88,268	101	17,203	17,079	162	14,282	2,921	6,944
TWO									
NJ	15,626	58,969	67	10,498	9,646	86	6,356	4,142	55
NY	26,978	89,527	269	27,508	27,497	399	25,305	2,203	1,345
PR	4,492	5,719	0	1,042	822	0	486	556	190
VI	144	278	0	24	23	0	13	11	14
SUBTOTAL	47,240	154,493	336	39,072	37,988	485	32,160	6,912	1,604
THREE									
DC	664	3,226	4	885	870	16	707	178	267
DE	1,390	7,011	44	2,573	2,490	46	2,340	233	417
MD	8,210	33,741	103	11,365	11,130	150	10,850	515	341
PA	23,971	62,883	87	14,967	14,869	198	11,959	3,008	28
VA	19,357	59,687	130	11,574	11,476	111	11,016	558	63
WV	5,516	19,788	34	3,243	3,103	82	2,388	855	10
SUBTOTAL	59,108	186,336	402	44,607	43,938	603	39,260	5,347	1,126

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 2010 (Cumulative as of March 31, 2010)

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	18,559	29,730	36	11,434	11,312	44	10,082	1,352	451
FL	24,339	106,952	166	26,121	15,969	315	11,939	14,182	204
GA	29,587	47,730	96	12,415	12,157	142	10,677	1,738	2
KY	11,618	37,780	102	14,377	14,354	122	12,390	1,987	192
MS	8,590	22,973	59	7,090	6,992	60	6,781	309	131
NC	27,518	67,126	112	24,667	22,839	243	19,328	5,339	667
SC	11,848	32,692	66	9,385	9,098	151	6,509	2,876	99
TN	16,574	36,366	89	14,051	14,181	85	13,535	516	69
SUBTOTAL	148,633	381,349	726	119,540	106,902	1,162	91,241	28,299	1,815
FIVE									
IL	21,791	65,290	202	24,560	23,017	522	18,611	5,949	1,888
IN	13,489	37,291	99	9,048	8,748	170	6,905	2,143	303
MI	19,392	68,335	75	21,891	21,444	103	12,759	9,132	82
MN	12,694	31,911	81	10,497	10,304	151	9,835	662	690
OH	22,962	43,381	171	28,037	27,228	203	25,249	2,788	417
WI	14,926	66,748	51	18,868	18,520	145	16,742	2,126	387
SUBTOTAL	105,254	312,956	679	112,901	109,261	1,294	90,101	22,800	3,767

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UST Corrective Action Measures for Mid FY 2010 (Cumulative as of March 31, 2010)

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	9,248	20,727	15	1,467	1,154	11	1,165	302	25
LA	12,004	32,703	114	4,012	4,012	203	2,927	1,085	843
NM	3,941	12,484	9	2,551	1,885	24	1,809	742	87
OK	10,673	26,364	54	4,774	4,756	90	4,410	364	149
TX	52,656	115,703	117	25,930	24,774	273	23,403	2,527	593
SUBTOTAL	88,522	207,981	309	38,734	36,581	601	33,714	5,020	1,697
SEVEN									
IA	7,673	22,289	25	6,004	5,666	31	4,644	1,360	250
KS	6,851	20,181	17	4,934	4,816	43	3,430	1,504	123
MO	9,656	30,397	73	6,589	6,482	75	5,450	1,139	384
NE	6,825	14,542	14	6,163	4,777	55	4,477	1,686	14
SUBTOTAL	31,005	87,409	129	23,690	21,741	204	18,001	5,689	771
EIGHT									
CO	7,893	21,622	118	7,339	7,230	111	6,566	773	43
MT	3,152	12,479	3	3,008	2,582	13	1,940	1,068	47
ND	2,141	7,114	2	836	822	0	820	16	5
SD	3,035	6,973	6	2,466	2,423	4	2,428	38	22
UT	3,951	13,075	25	4,485	4,458	27	4,083	402	5
WY	1,858	7,988	0	2,648	2,011	18	1,334	1,314	71
SUBTOTAL	22,030	69,251	154	20,782	19,526	173	17,171	3,611	193

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 2010 (Cumulative as of March 31, 2010)

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	7,036	20,940	13	8,536	8,018	49	7,607	929	0
CA	38,496	127,595	48	43,271	43,263	546	33,113	10,158	0
CNMI	68	28	0	10	9	0	9	1	0
GU	261	440	1	139	138	2	115	24	0
HI	1,618	5,363	17	2,005	1,922	12	1,771	234	0
NV	3,806	7,008	0	2,460	2,459	6	2,295	165	52
SUBTOTAL	51,301	161,426	79	56,429	55,816	615	44,917	11,512	53
TEN									
AK	1,165	6,468	6	2,307	2,248	27	1,852	455	47
ID	3,485	10,497	10	1,434	1,402	14	1,290	144	12
OR	5,850	26,072	24	7,205	6,953	41	6,082	1,123	56
WA	9,886	36,401	29	6,471	6,395	31	4,495	1,976	39
SUBTOTAL	20,386	79,438	69	17,417	16,998	113	13,719	3,698	154

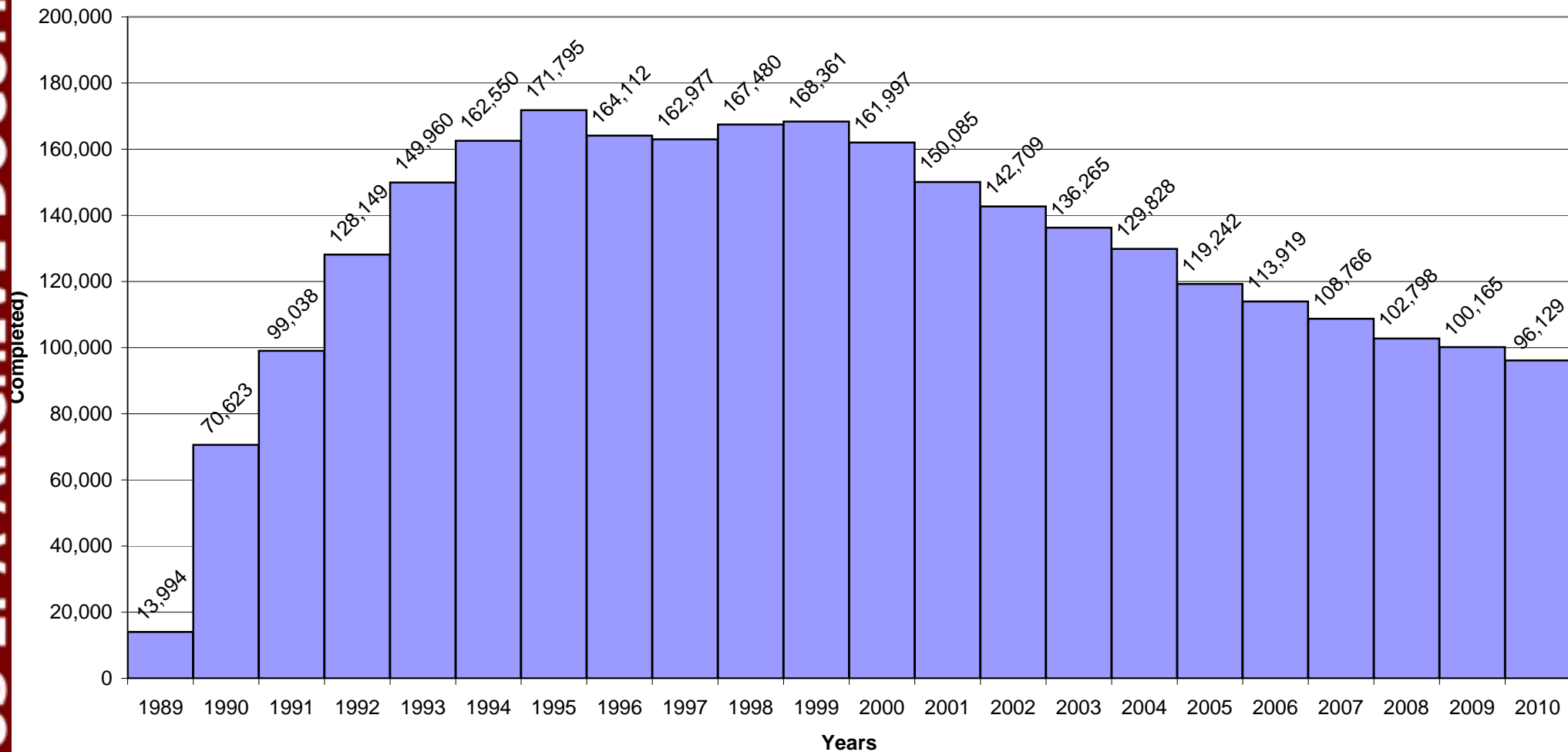
Definitions of confirmed releases, cleanups initiated, and cleanups completed are on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST Corrective Action Measures for Mid FY 2010 (Cumulative as of March 31, 2010)

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	8	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	13	13	0	11	2	2
REGION 5	484	997	0	220	213	3	157	63	0
REGION 6	313	267	0	55	53	0	50	5	1
REGION 7	91	93	0	20	20	0	11	9	0
REGION 8	553	1,956	9	458	424	8	300	158	5
REGION 9	701	1,291	2	248	192	6	188	60	0
REGION 10	330	1,002	3	177	172	4	155	22	3
SUBTOTAL	2,676	5,700	14	1,197	1,089	21	877	320	11
	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	607,068	1,734,607	2,998	491,572	466,919	5,433	395,443	96,129	18,135

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 End Of Year Mid FY 2010



**UST Compliance Measures
for Mid FY 2010 (as of March 31, 2010)**

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	77%	65%	59%
MA	**DNA	**DNA	**DNA
ME	82%	64%	59%
NH	67%	73%	50%
*RI	89%	75%	71%
*VT	81%	82%	73%
SUBTOTAL	78%	69%	61%
TWO			
NJ	94%	91%	87%
NY	77%	68%	63%
PR	58%	45%	41%
VI	93%	90%	87%
SUBTOTAL	81%	74%	69%
THREE			
DC	82%	83%	71%
DE	75%	83%	69%
MD	91%	91%	85%
PA	89%	86%	78%
VA	77%	68%	58%
WV	68%	68%	56%
SUBTOTAL	83%	79%	70%

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	94%	86%	83%
FL	93%	90%	89%
GA	82%	72%	68%
KY	54%	60%	41%
MS	68%	70%	53%
NC	74%	75%	68%
SC	86%	87%	77%
TN	85%	84%	76%
SUBTOTAL	82%	79%	72%
FIVE			
*IL	73%	71%	55%
IN	78%	82%	70%
*MI	81%	55%	48%
MN	63%	73%	59%
OH	87%	68%	64%
*WI	88%	83%	75%
SUBTOTAL	79%	71%	61%
SIX			
AR	62%	71%	51%
LA	88%	84%	73%
NM	67%	72%	54%
*OK	63%	62%	50%
TX	80%	78%	72%
SUBTOTAL	77%	76%	67%

These compliance rates indicate the percentage of facilities found to be in significant operational compliance (SOC) with federal UST requirements from 4/1/09 through 3/31/10. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Illinois, Michigan, Oklahoma, 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 2010 (as of March 31, 2010)**

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	76%	78%	65%
KS	56%	89%	51%
MO	86%	97%	84%
NE	61%	53%	39%
SUBTOTAL	71%	81%	62%
EIGHT			
CO	85%	77%	70%
MT	96%	90%	85%
ND	85%	82%	74%
SD	69%	85%	63%
UT	85%	86%	75%
WY	94%	95%	90%
SUBTOTAL	85%	83%	74%
NINE			
AS	**DNA	**DNA	**DNA
AZ	90%	91%	89%
CA	83%	75%	66%
CNMI	100%	100%	100%
GU	67%	77%	68%
HI	99%	90%	88%
NV	91%	86%	79%
SUBTOTAL	85%	79%	71%

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	70%	75%	69%
ID	74%	63%	52%
OR	93%	90%	85%
WA	78%	67%	60%
SUBTOTAL	81%	73%	66%
INDIAN COUNTRY			
REGION 1	**DNA	**DNA	**DNA
REGION 2	**DNA	**DNA	**DNA
REGION 3	**NA	**NA	**NA
REGION 4	85%	70%	60%
REGION 5	76%	54%	52%
REGION 6	91%	81%	75%
REGION 7	64%	73%	64%
REGION 8	87%	84%	75%
REGION 9	69%	75%	56%
REGION 10	62%	62%	49%
SUBTOTAL	76%	72%	61%
NATIONAL TOTAL			
TOTAL	80.2%	76.3%	67.6%

These compliance rates indicate the percentage of facilities found to be in significant operational compliance (SOC) with federal UST requirements from 4/1/09 through 3/31/10. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Illinois, Michigan, Oklahoma, 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.

ILLINOIS

Release Detection: Testing

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

MICHIGAN

Release Detection

- Inventory control is required when using an automatic tank gauge (ATG).

OKLAHOMA

Release Prevention: Spill Prevention

- Ball floats not allowed as overflow prevention for any tank installed after 2001.

Release Prevention: Operation and Maintenance of Cathodic Protection

- Requires the previous 12 months of cathodic protection 60-day rectifier readings to be available for review.

Release Prevention: Operation and Maintenance

- Monthly monitoring records not allowed to declare a lined tank is tight.

Release Detection: Testing

- Failed testing results must be submitted to the state within 7 days.
- Automatic tank gauges (ATGs) that cannot detect a 0.1 gallon per hour leak rate monthly are required to have monthly inventory reconciliation in addition to ATG test.
- Statistical inventory control (SIR) cannot be used as sole method or release detection for piping.
- Annual function test of all mechanical and electronic line leak detectors, as well as dispenser and tank sump sensors, is required by simulating a leak.
- Monthly alarm history and sensor status reports must be printed if used with interstitial monitoring in lieu of annual line test.

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 overflow 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 2010 (as of March 31, 2010)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
ONE		
CT	479	0
MA	840	0
ME	232	2
NH	249	33
RI	80	0
VT	123	0
SUBTOTAL	2,003	35
TWO		
NJ	724	14
NY	1,806	0
PR	508	0
VI	2	0
SUBTOTAL	3,040	14
THREE		
DC	24	56
DE	60	0
MD	386	4
PA	1,541	38
VA	1,027	0
WV	348	1
SUBTOTAL	3,386	99

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
FOUR		
AL	1,558	77
FL	3,950	0
GA	2,410	522
KY	683	0
MS	546	12
NC	1,564	40
SC	1,832	118
TN	1,365	64
SUBTOTAL	13,908	833
FIVE		
IL	1,533	272
IN	1,117	0
MI	1,351	74
MN	577	1
OH	1,044	0
WI	1,949	73
SUBTOTAL	7,571	420
SIX		
AR	731	0
LA	667	4
NM	368	0
OK	1,909	191
TX	405	157
SUBTOTAL	4,080	352

The inspection and enforcement action reporting period is from 10/1/09 through 3/31/10. 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 2010 (as of March 31, 2010)**

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
SEVEN		
IA	2,519	12
KS	439	242
MO	1,007	3
NE	282	0
SUBTOTAL	4,247	257
EIGHT		
CO	825	0
MT	238	0
ND	0	0
SD	169	0
UT	377	0
WY	199	0
SUBTOTAL	1,808	0
NINE		
AS	4	2
AZ	376	0
CA	5,750	74
CNMI	20	0
GU	0	0
HI	99	0
NV	416	0
SUBTOTAL	6,665	76

Region / State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
TEN		
AK	287	103
ID	363	0
OR	266	22
WA	564	0
SUBTOTAL	1,480	125
INDIAN COUNTRY		
REGION 1	0	0
REGION 2	0	0
REGION 3	*N/A	*N/A
REGION 4	0	0
REGION 5	1	0
REGION 6	8	0
REGION 7	0	0
REGION 8	23	0
REGION 9	11	0
REGION 10	4	0
SUBTOTAL	47	0
NATIONAL TOTAL		
TOTAL	48,235	2,211

The inspection and enforcement action reporting period is from 10/1/09 through 3/31/10. Not all states fully implement delivery prohibition at this time, and some states prohibit deliveries primarily for registration violations.

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