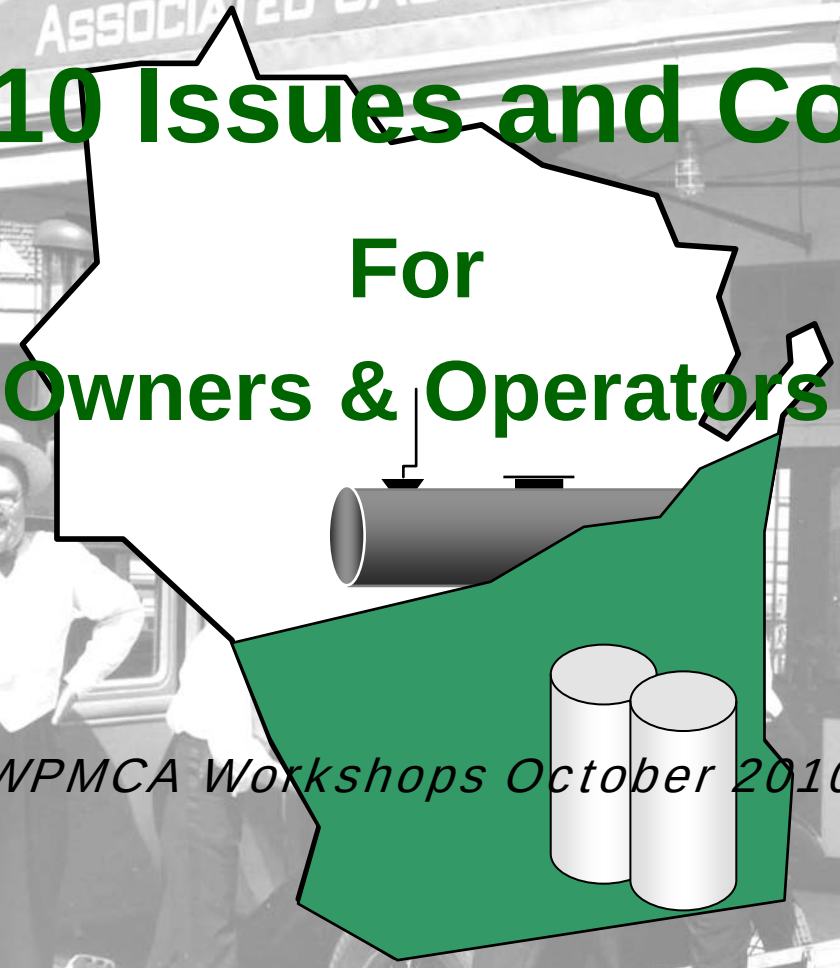
Comm 10 Issues and Concerns

For

Owners & Operators



WPMCA Workshops October 2010

By

Sheldon Schall, Storage Tank Regulation Section Chief

Overview of the Workshop

- Comm 10 revisions - Feb 1, 2009 and Aug 1, 2009
- Fed Energy Bill Operator Training
- WDNR – Petroleum Spill Actions & Reporting
- Allow opportunity for questions & discussion

Upgrade Deadlines

Underground Storage Tank (UST) upgrades:

Feb 1, 2010	**Periodic inspection of UST systems -** Comm 10.500(8)
Feb 1, 2011	**Auto shut-off overfill protection -** Comm 10.505(2)(b)
Jan 1, 2012	**Designation of Class A, Class B and Class C operators -** Comm 10.820 (1)
Dec 31, 2014	**Pipe connections at top of tank and beneath pumps and dispensers shall be in secondary containment -** Comm 10.500(5)(d)

Aboveground Storage Tank (AST) upgrades:

Feb 1, 2010	**Periodic inspection of AST systems -** Comm 10.440(1)
Feb 1, 2010	**Containment for fill not located in dike -** Comm 10.410(6)
Feb 1, 2011	**Corrosion protection on underground piping from an AST -** Comm 10.400(2)(c)
Feb 1, 2011	**Leak detection for underground piping from an AST -** Comm 10.400(4)(a)
Aug 1, 2011	**Overfill prevention on ASTs with fill point not in dike -** Comm 10.410(9)
Dec 31, 2011	**Emergency shut-off for transfers from fixed tank to tank vehicle, rail tank car or vehicle fuel tank -** Comm 10.370
Dec 31, 2011	**Secondary containment for product transfers at bulk plants and terminals -** Comm 10.340(5)
Dec 31, 2014	**Secondary containment for Hazardous Substance ASTs -** Comm 10.350(3)(j)2
Dec 31, 2014	**Secondary containment for Hazardous Substance product transfers -** Comm 10.350(5)(b)1.b.
Dec 31, 2014	**Pipe connection at dispenser shall be in secondary containment –** Comm 10.400(3)(d)

Tank & Dispenser Sump Upgrade

Comm 10.500(5)(c-f)

(d) All existing pipe connections at the top of the tank and beneath all freestanding pumps and dispensers, that routinely contain product shall be placed within secondary containment sumps by December 31 of the fifth year following February 1, 2009…2014.

Exemption: Comm 10.500(1)(b)3 – existing safe suction systems tank sumps

(e) All pipe connections at a transition between aboveground and underground piping that are installed or replaced on or after February 1, 2009, shall be placed within a secondary containment sump at the time of installation or replacement.

Sump must pass initial tightness test

Dispenser Sump Cont'd

Comm 10.500(5)(f)

Sensor not retroactive for existing liquid tight sumps

Piping off the bottom

Non discriminating sump sensor (water & product)
Located in lowest part of sump

(f) 1. Secondary containment sumps provided under this subsection shall have non-discriminating electronic sensors that will detect liquids in the sump, unless approved otherwise by the department.

2. Piping for secondary containment sumps installed or replaced after Aug 1, 2009 under this subsection may not pass through the bottom of the sump.

Form – in – place Sump

Not so good

Better

Questions to ask contractor:

- What is the guarantee or warranty period?
- Will dispensers be removed for the work to be performed?
- How will existing sump be cleaned?
- How will metal components be cleaned?
- How will uniformity of thickness be achieved?
- Will the sump be constructed to accommodate the sump sensor?
- Will you provide photos of sump reflecting condition before you add the coating?
- How will post installation tightness test be performed?
- What happens if sump does not pass tightness test?
- What documentation is furnished?

What you need

No tank top containment – you need containment
&
a sump sensor

- Sump
- Sump pan
- Form in place

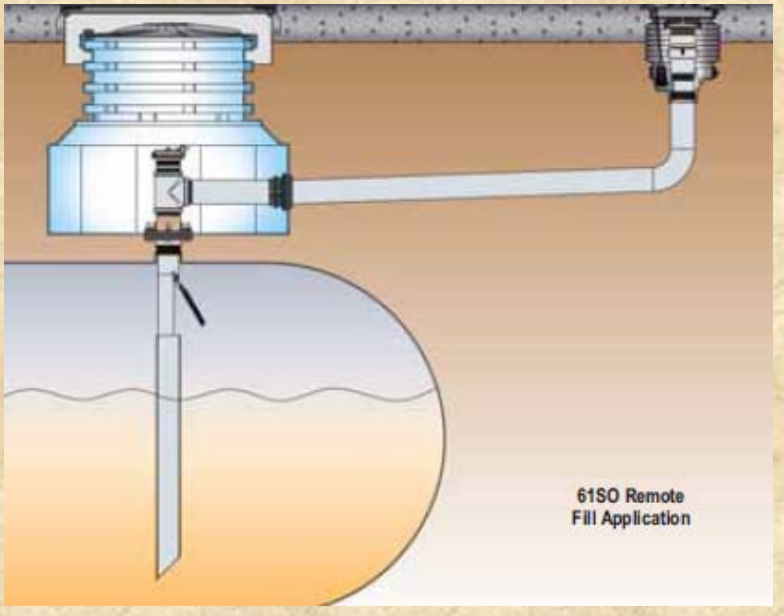
No under dispenser containment – you need containment
&
a sump sensor

If you had this type of containment by Feb 1, 2009, you don't need a sensor

Plan submittal not required for sensor unless it changes primary leak detection method.

Remote Fill

Liquid tight containment at tank top



UST Overfill Prevention

Comm 10.505

Existing Retroactive:
February 1, 2011

NFPA 30-21.7.1.5

An underground tank shall be equipped with overfill prevention equipment that will operate as follows:

(1) Automatically shut off the flow of liquid into the tank when the tank is no more than 95 percent full

(2) Alert the transfer operator when the tank is no more than 90 percent full by restricting the flow of liquid into the tank or triggering the high-level alarm

(3) Other methods approved by the authority having jurisdiction

Includes remote fills

Tight connect transport delivery

Hand-held nozzle delivery without tight connect

- **Waive auto-shut-off, but must have the following:**
- **Audible alarm, and**
- **Visual signal**

EPA 47 state survey – 52% of UST leaks caused by overfill


Pay at the Pump
Hot Dogs
2 for 99¢
REGULAR
DIESEL
3

- Under dispenser containment
- Dec 2014

- Periodic inspection
- Dec 2014

- Overfill
- Aug 2011

- CP & LD
- Feb 2011

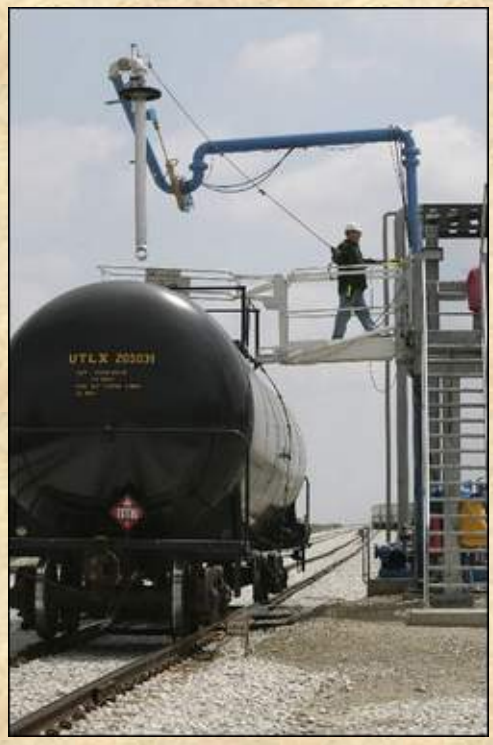
- Transition containment
- Dec 2014

- Periodic inspection
- Feb 2010

- Auto shut-off
- Feb 2011

- Class A/B & C operator training
- Jan 2012

- Tank sump containment
- Dec 2014

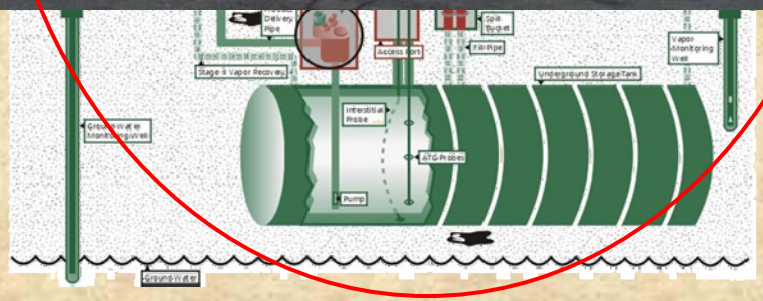


- Fill containment
- Feb 2010

- Emergency shut-off
- Dec 2011

- Secondary containment at transfer point
- Dec 2014

Management oversight priorities



- Significant $$ of property investment
- What draws business into store
- Typically the most neglected
- Poses the greatest risk to your liability via environmental contamination from a spill or release

Tank System Problems Are the Result of:

- Not installed properly
- Not maintained properly
- Not operated properly
- Functionality and longevity of components not properly understood

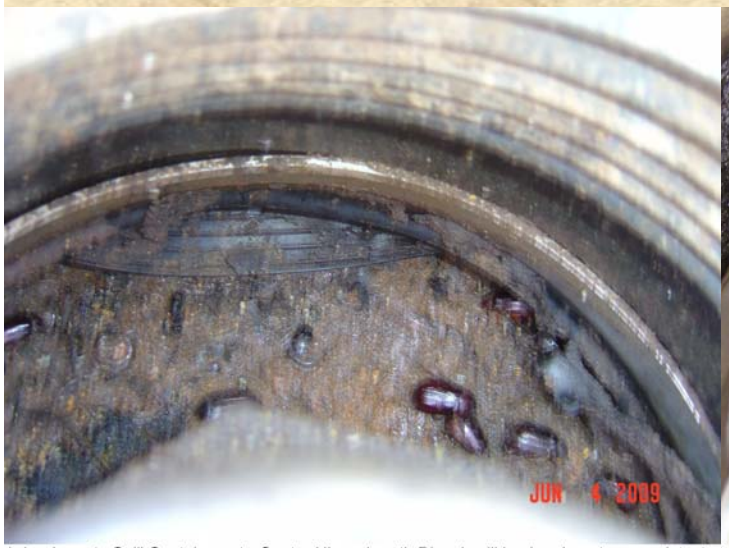
If you are not looking for it you will not find it


JAN 8 2009


01/27/2010 08:26

Spill bucket

EPA 6 state study indicated that spill bucket poses 22-59% of all system releases



* Inadequate Spill Containment - Center NL and north Diesel spill basins do not appear intact (Note: separated at lower section).

ıpill Containment - Spill basin not sealed to 4" fill pipe (improperly ıter NL and Premium NL tanks.

* Inadequate Spill Containment - Damaged spill basin (split in top section of containment) at NL tank.

* Inadequate Spill Containment - Top section/ring of spill basin is damaged at Premium NL tank.

* Inadequate Spill Containment - Damaged spill basin (detached top section) at East "Motor Oil" tank.

Install / Upgrade / Repair

Don’t just jump into it!

- Low bid vs. “time and material.”
- Flat rate vs. “time and material.”
- What are you getting with the “low” bid?
- Compare technology and longevity.
- Discuss ease of maintenance on your part or replacement by contractor.
- How is the contractor verifying that the system is “TIGHT?”
- How many days before “post-operational” follow-up?
- Always, always, always require a post install/upgrade/repair walk-through with the contractor.
- *Does the contractor appear to take a “personal” long term stake in your system?*

Do you know what you have?

This tank:

- This tank is a bare steel tank with internal lining
- Is has been in the ground 55 years
- This tank was 35 years old before it was lined

Underground Storage Tank - ID: 255177, Wang ID: 050300048, In Use, PTO Expiration: 02/28/2011					
Install Date:	01/01/1955	**Capacity in Gallons:**	10000	**Contents:**	Diesel
Tank Occupancy:	Mercantile/Commercial	**Marketer:**	N	**CAS Number:**	
Federally Regulated:	Y	**Spill Protection:**	Required - Installed	**Overfill Protection:**	Required - Installed
Corrosion Protect Type:	Not Applicable	**Date of Lining:**	08/09/1985	**Lining Inspected Date:**	07/28/2009
Leak Detection:	Automatic Tank Gauge	**Cath Test Date:**		**Cath Expire Date:**	
Leak Test Meth:		**Leak Expire Date:**		**Leak Test Date:**	11/15/2009
Construction Material:	Lined Steel	**Wall Size:**	Single	**Underground Piping:**	Y
Close Order Date:		**Close Order By:**			

Piping - In Use					
Flex Connectors:		**UST mainfolded:**	N	**Related Tank ID:**	
Type:		**Aboveground Piping:**		**Aboveground Pipe Construction:**	
Construction Material:	Fiberglass	**Corrosion Protect Type:**	Not Applicable	**Leak Detection:**	Not Required
Cath Test Date:		**Cath Expire Date:**		**Leak Test Meth:**	
Leak Test Date:		**Leak Expire Date:**		**Pipe Wall Size:**	Single
Catastrophic Leak Detection:		**Cat Leak Test Date:**		**Piping System Type:**	Safe Suction
Inspections Click here for login page					

Do you know what you have?

This tank:

- This tank and piping is bare steel with impressed current
- Is has been in the ground 44 years
- This tank was 35 years old before IC was added (Commerce records)

Underground Storage Tank - ID: 341012, Wang ID: 560700179, In Use, PTO Expiration: 06/28/2011					
Install Date:	01/01/1966	**Capacity in Gallons:**	4000	**Contents:**	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	**Marketer:**	Y	**CAS Number:**	
Federally Regulated:	Y	**Spill Protection:**	Required - Installed	**Overfill Protection:**	Required - Installed
Corrosion Protect Type:	Impressed Current	**Date of Lining:**		**Lining Inspected Date:**	
Leak Detection:	Statistic Inventory Reconciliation	**Cath Test Date:**	06/25/2010	**Cath Expire Date:**	06/25/2011
Leak Test Meth:		**Leak Expire Date:**		**Leak Test Date:**	04/28/2010
Construction Material:	Bare Steel	**Wall Size:**	Single	**Underground Piping:**	Y
Close Order Date:		**Close Order By:**			

Piping - In Use					
Flex Connectors:		**UST mainfolded:**	Y	**Related Tank ID:**	341013
Type:		**Aboveground Piping:**		**Aboveground Pipe Construction:**	
Construction Material:	Bare Steel	**Corrosion Protect Type:**	Impressed Current	**Leak Detection:**	Statistic Inventory Reconciliation
Cath Test Date:	06/25/2010	**Cath Expire Date:**	06/25/2011	**Leak Test Meth:**	
Leak Test Date:	04/28/2010	**Leak Expire Date:**		**Pipe Wall Size:**	Single
Catastrophic Leak Detection:	Flow Restrictor	**Cat Leak Test Date:**	04/29/2009	**Piping System Type:**	Pressurized

1988 EPA 40 CFR 280

- Allowed bare UST corrosion protection upgrade via impressed current
- Assessment protocol was ES-40 – a risk assessment based on statistical analysis
- Not well understood, but encouraged by EPA
- ES-40 assessment documentation not standardized
- EPA now finding increased failure of ES-40 upgraded USTs

10778 – Annual Functionality Verification

- *All* Fed Reg UST facilities have functionality assessment requirement
- Different versions throughout development
- Recent version includes Commerce notification if any components not functional

10778 – Annual Functionality Verification

PEI 900 Annual Inspection Comparison

STORAGE SYSTEM INSPECTION SUMMARY TABLE

COMPONENT	DAILY	MONTHLY	ANNUAL	10778 Annual Verification
Complete daily checklist and compare to previously completed daily checklists		X		
Complete monthly checklist and compare to previously completed monthly checklists			X	
Automatic Tank Gauge	X	X	X	X
Check for Water in Tank		X		X
Tank Top and Fuel Dispenser Sumps			X	X
Fuel dispensers			X	X
Drop Tube		X	X	X
Electronic Leak Detector		X	X	X
Fill Cover	X			X
Fill Pipe	X	X		X
Electronic Leak Detector (piping)		X	X	X
Galvanic Corrosion Protection			X	Requirement not applicable to 10778
Tank Gauge Stick		X		
Grade Level Covers		X		X
Groundwater/Soil Vapor Monitoring		X	X	X*
Impressed Current Corrosion Protection		X	X	Requirement not applicable to 10778
Inventory Control	X	X		
Leak Detection Monitor	X	X	X	X
Manual Interstitial Monitoring		X		
Mechanical Leak Detector (piping)	X		X	X
Observation Wells		X	X	
Overfill Prevention			X	X
Piping Condition			X	X
Piping Leak Test		X		X
Piping Tightness Test			X	X
Site Diagram			X	
Spill Containment Manhole	X	X		X
Stage I Vapor Recovery		X	X	Requirement not applicable to 10778
Stage II Vapor Recovery			X	Requirement not applicable to 10778
Statistical Inventory Reconciliation		X		
Submersible Turbine Pump			X	X
Tank Lining			X	Not annual per Comm 10
Tank Pad and Pavement			X	
Tank Tightness Test			X	X*
Tank Vents		X		

TABLE B-1. *This table lists alphabetically the components that are included in the daily, monthly, and annual inspections described in this recommended practice and the frequency of inspection for each of these components. Refer to the checklists in Appendix A and Chapters 6, 7, and 8 of this document for detailed descriptions of the inspection procedures.*

51

X* Depending upon the situation

Facility Name: ____________

F. General

❑Yes ❑No Monitoring system set-up wa
Attach set up reports and a d

❑Yes ❑No Are there any current alarms

❑Yes ❑No ❑NA If alarms are relayed to

❑Yes ❑No Was any monitoring equipme
the manufacturer name and m

❑Yes ❑No ATG or monitoring system's

❑Yes ❑No All gasoline dispenser hoses

❑Yes ❑No Are all dual point adaptor and

In-Tank Gauging ❑ **Check this box if no**
❑ **Check this box if tan**

❑Yes ❑No All input wiring has been visu

❑Yes ❑No All tank gauging probes, visu

❑Yes ❑No Accuracy of system product l

❑Yes ❑No Have all the tanks been chec

❑Yes ❑No All probes reinstalled properly

❑Yes ❑No ❑NA All items on the equipm

Leak Detector (LLD) ❑ **Check box if L**

❑Yes ❑No Each Electronic Line Leak De

❑Yes ❑No For electronic LLDs have all

G. DISPENSER INFORMATION

Dispenser ID: ____________

Dispenser Containment Sensor - Model: ____
❑Yes ❑No Shear Valve(s) properly ancho
❑Yes ❑No Dispenser does have containm
❑ Manufactured or ❑Field

Dispenser ID: ____________

Dispenser Containment Sensor - Model: ____
❑Yes ❑No Shear Valve(s) properly ancho
❑Yes ❑No Dispenser does have containm
❑ Manufactured or ❑Field

Dispenser ID: ____________

Dispenser Containment Sensor - Model: ____
❑Yes ❑No Shear Valve(s) properly ancho
❑Yes ❑No Dispenser does have containm
❑ Manufactured or ❑Field

Dispenser ID: ____________

Dispenser Containment Sensor - Model: ____
❑Yes ❑No Shear Valve(s) properly ancho
❑Yes ❑No Dispenser does have containm
❑ Manufactured or ❑Field

Facility Name: ____________

C. Inventory of Tank Equipment Belo

Tank Product: ____________

❑ Yes ❑ No ❑ NA In-Tank Gauging Prob
Make /Model: ____

❑ Yes ❑ No ❑ NA Tank Interstitial Senso
properly. ❑ Float T

❑ Yes ❑ No ❑ NA Tank Sump Sensor Ins

❑ Yes ❑ No ❑ NA Mechanical Line Leak
Model____

❑ Yes ❑ No ❑ NA Electronic Leak Detec
Model____

❑ Yes ❑ No ❑ NA Tank Overfill -90% ale

❑ Yes ❑ No ❑ NA Tank Overfill - 95% au

Tank Product: ____________

❑ Yes ❑ No ❑ NA In-Tank Gauging Prob
Make /Model: ____

❑ Yes ❑ No ❑ NA Tank Interstitial Senso
properly. ❑ Float T

❑ Yes ❑ No ❑ NA Tank Sump Sensor Ins

❑ Yes ❑ No ❑ NA Mechanical Line Leak
Model____

❑ Yes ❑ No ❑ NA Electronic Leak Detec
Model____

❑ Yes ❑ No ❑ NA Tank Overfill -90% ale

❑ Yes ❑ No ❑ NA Tank Overfill - 95% au

D. OVERFILL

❑Yes ❑No Is an outdoor audible and visu
All sites must have alarm inst
(Check appropriate box(s))

❑Yes ❑No Overfill auto shut-off drop tube

❑Yes ❑No Ball floats on all tanks have b

E. CONTAINMENT

❑Yes ❑No Are all spill buckets intact with

❑Yes ❑No ❑NA If spill bucket is designe

❑Yes ❑No All tank and transition sump s

❑Yes ❑No Are all sensors installed acco
positioned so that nothing wi

The double-wall interstitial pipe is installed wit

❑Yes ❑No ❑NA Test ports/fittings/boots

❑Yes ❑No ❑NA Submersible or dispens
penetration boots (N

❑Yes ❑No Was liquid found inside any s
comments?

❑Yes ❑No ❑NA For pressurized piping s
monitoring system de
❑ Sump sensor ❑

❑Yes ❑No ❑NA Have all "stand-alone" s

commerce.wi.gov
Wisconsin Department of Commerce

UNDERGROUND TANK SYSTEM FUNCTIONALITY & VERIFICATION
***ERS 10778 ***

Environmental & Regulatory Services Division
Petroleum Products & Tank Bureau
P.O. Box 7837, Madison, WI 53707-7837

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m)].

A. OWNER INFORMATION	SITE INFORMATION	CONTRACTOR INFORMATION
Name	Facility ID#: Facility Name	Contractor Name
Company Name	Site Address	Contact Person
Number and Street	City, State, Zip Code	E-mail address
City, State, Zip Code	Assigned Anniversary month:	Telephone Number Fax Number ( ) ( )
Telephone Number Fax Number ( ) ( )	Date of Testing/Servicing:	Work order number:

This form must be used to document testing and servicing of monitoring equipment. A separate verification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must retain these records in accordance with Comm 10.500(9).

B. Results of Testing/Servicing

Tech's Manufacturer's Certification Number: ____________ Level: ________

ATG Make and Model: ____________ ❑ CSLD Software Version Installed: ____________

All Equipment Tested and Verified as functional: Yes ❑ No ❑ Are all deficiencies corrected? Yes ❑ No ❑

Note: If a response is "No" for either question; page 1 of this form must be immediately forwarded to the Dept. of Commerce via e-mail to: COMER-Comm10forms@wisconsin.gov

In Section below, describe how and when deficiencies were or will be corrected.

Comments ____

____

____

____

____

____

____

____

____

____

____

____

____

____

Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines and the system is set up correctly. Attached to this report is additional documentation (e.g. manufacturers' checklists) necessary to verify that this information is correct. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*:

❑ Reviewed System Set-Up ❑ Set-up Corrections made ❑Reviewed Alarm history report

Technician Name (print): ____________ Signature: ____________ Date: ________

Facility Personnel (print): ____________ Signature: ____________ Date: ________

10778 notification to Commerce

- **The form is intended to *document that the various tests have been performed and all of the respective components are functional*.**
- **What has to be *reported to the department are components that are not functional when the service tech has completed the respective tests*.**
- ***If a component fails a test, we expect it to be corrected*. If the fail is corrected by the service tech there is no need to report the failed test; however we do expect the 10778 form to have a comment related to the fail and correction.**

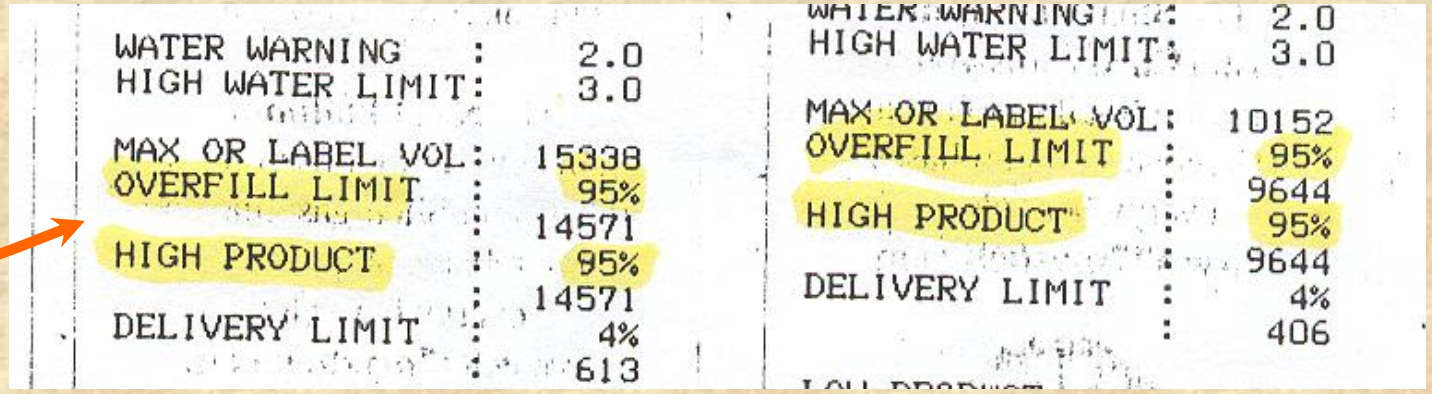
  One example of a fail or some other deficiency needing to be reported would be an operator who does not give the tech the go-ahead to repair or correct a deficiency. *If the tank operator is intending to hire another service contractor to perform the repair or correction, that still needs to be reported to Commerce.*

Annual Verification

Verification is as good as the technician's assessment

☑ All items on the equipment manufacturer's maintenance checklist completed	
☑ A leak was simulated to verify LLD performance *(Check all that apply)* at a leak rate of: ☐ .3 g.p.h.; ☐ 0.1 g.p.h ; ☐ 0.2 g.p.h.	☑
☑ Tank Overfill - 90% alert via: ☐ flow restriction or ☐ flapper	☑
☑ Tank Overfill - 95% auto shut-off	☑
☐ Other (specify equipment type/model in comment section below).	☐
☑ Spill bucket is functional ☐ Spill bucket replaced	☑
☐ **Tank Reg Obj.** # Unleaded 45680	☐

???



Notification to Commerce by service contractor

B. Results of Testing/Servicing

Tech's Manufacturer's Certification Number: _____ Level: _____

ATG Make and Model: _____ ❑ CSLD Software Version Installed: _____

All Equipment Tested and Verified as functional: Yes ❑ No ❑ Are all deficiencies corrected? Yes ❑ No ❑

Note: If a response is "No" for either question; page 1 of this form must be immediately forwarded to the Dept. of Commerce via e-mail to: **COMER-Comm10forms@wisconsin.gov**

In Section below, describe how and when deficiencies were or will be corrected.

In Section below, describe how and when deficiencies were or will be corrected.

Comments NO Leak detection on underground portion of piping. Diesel probe is reading 4" off actual level. Probe is 4" inches off compared to dipped level. ~~False~~ Notified List of problems NO overfill alarms present Not a deficiency until 2/2011 Water also present in Piping. Sump outside

All Equipment Tested and Verified as functional: Yes ❑ No ❑ Are all deficiencies corrected? Yes ❑ No ❑
Note: If a response is "No" for either question; page 1 of this form must be immediately forwarded to the Dept. of Commerce via e-mail to: COMER-Comm10forms@wisconsin.gov

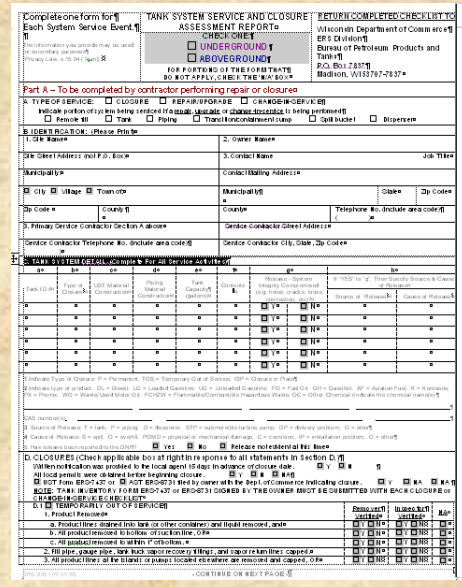
Commerce

Retail site **Non retail site**

Commerce inspector **Commerce or LPO inspector**

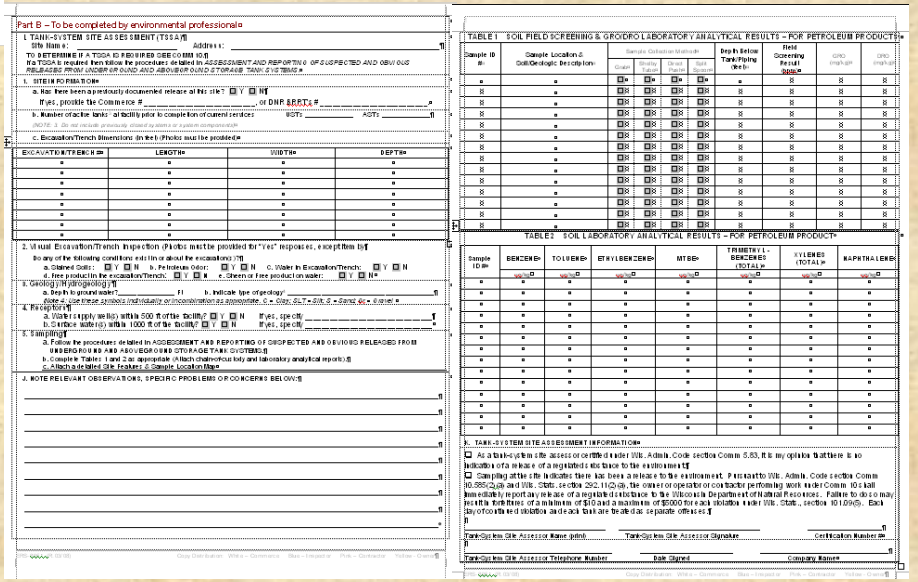
TSSA Form

Tank System Service & Closure Assessment Report



Part A – Contractor / Inspector

Part B – Assessor / Consultant



TSSA

Performed by Comm 5 credentialed Site Assessor

1. Closure (AST / UST &/or underground pipe)[10.465 & 10.] *Even if site has known contamination.*
2. NEW Repair where leak has become a release into the environment (soil / water) [10.500(7)]

> **10.500(7)(d)*Tank-system site assessment*. When *repairs are made to piping or fittings that have released product to the environment,* an assessment of the piping run, to identify points of release, shall be performed in accordance with ss. Comm 10.575 to 10.585.**

3. Prior to internal UST lining if holes or rust plugs exist [10.530(2)(c)2]
4. Last phase of investigating “Conditions indicating a release” [10.570 – 10.580]

Suspicion / Obvious need “evidence” to support either

TSSA Assessment for Repair

Comm 10.500(7)(d)

- *Tank-system site assessment*. When repairs are made to ***piping or fittings that have released product to the environment,*** an assessment of the piping run, to identify points of release, shall be performed in accordance with ss. Comm 10.575 to 10.585.
- For an assessment associated with a repair, *sampling is typically needed only in the vicinity of the repair,* unless there is evidence that suggests the impact of a release extends beyond the immediate vicinity of the repair.

Respond to LD Alarms

- Alarm documentation is required!
  - ❖**Dates**
  - ❖**Investigation**
  - ❖**Conclusion**
    - •**Leak / no leak**
    - •**Leak vs release**

"We need to look outside the box (sump)!"

Tape is NOT a solution!

Alarm / Leak Investigation

Comm 10.575

Step 1 Tank-System Integrity Assessment (TSIA)

Review LD print-outs and history time-line

Determine equipment functionality

Review Inventory Verification records

Perform a tightness test

If no resolution

Step 2 Tank System Site Assessment (TSSA)

Comm 10.580

Hire a consultant to perform soil sampling

Obvious or suspected release into the environment

Obvious

- Free product
- Soil staining
- Hydrocarbon odor

Suspected

- Hole in component
- Crack in component
- Rust plug in component
- Loose transition fittings
- Static level of liquid in containment
- Hydrocarbon odor

Obvious or suspected contamination

- Commerce has NEVER said or implied that “obvious or suspected contamination” can be ignored or disregarded during an upgrade activity.
- The code is performance based in the sense that “obvious or suspected contamination” must be addressed whenever suspected or obvious.
- Carrying out the tank system integrity assessment or the site assessment is the owner’s responsibility.
- Notifying the owner of “obvious or suspected contamination” is the contractor’s responsibility.

Importance of IV in Investigation

- **Monitoring wells picking up vapors**
- **Repeated tightness tests – Passed**
- **Poor / incomplete inventory control records**
- **Excavation – heavy clay soil**
- **Dangerously high vapor level when soil cap opened**
- **Free product when tank and pipe exposed**

Benefits of IV:

- Determine if total monthly product throughput exceeds limits of ATGs performing statistical monthly tank tests.
- Spot mis-deliveries
- Easily scan reports to determine dates when tanks contained sufficient amount of product for valid ATG tests.
- % Ethanol fuel blending – octane issues

Tank system tightness test

Comprehensive nature of TT depends upon the situation

- All portions of the UST system including the ullage area.
- All piping between the tank and the dispenser(s).
- Vent pipe between the tank and the termination point.

- New install pre-operational test
- Any time tank top connections are broken and reconnected.
- Repair of damage to underground components.
- Investigation for inconsistent leak detection results/reports.
- Investigation for water intrusion.
- Recommissioning a UST when CP has been inoperable for 181 or more days.
- After internal inspection of a tank lining.
- After lining installed on an UST

An ATG is not equipped to do it!

Code Violations

- Comm 10.115(5) Equipment tampering
- Comm 10.520(1) General requirement for CP if in contact with ground or water
- Comm 10.230(10) System Maintenance

At least 7 code violations occurring

Comm 10.230(10) System Maintenance

SYSTEM MAINTENANCE.

(a) All system equipment and components shall be *maintained to function to the manufacturer's original specifications* and shall be maintained to be leak-free.

(b) 1. *At least monthly*, except as provided in subd. 2, sumps and secondary containment systems for tanks, piping and dispensers shall be inspected, and any liquids and debris contained then shall be removed.

2. Sumps with a *non-discriminating electronic sensor* that detects liquid in the sump *shall be inspected at least semiannually* unless more frequent inspection is required by RP500 or RP900.

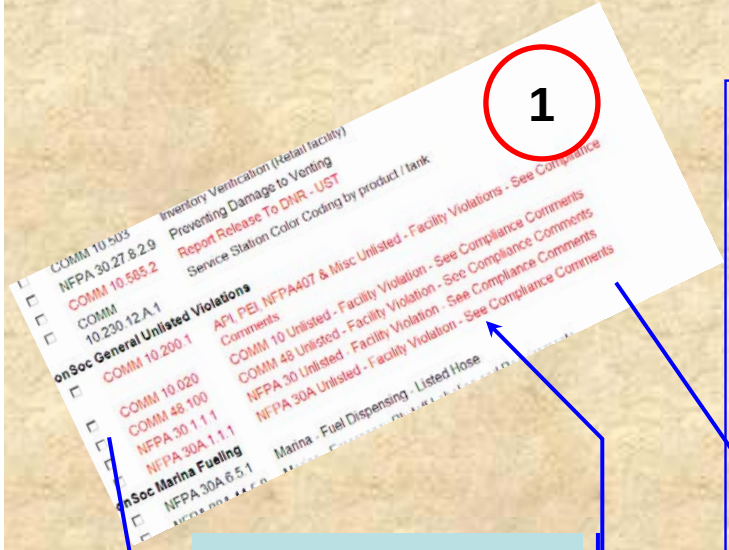
(c) Deficiencies in product lines or structural or transition components that allow for *liquid leaks or water intrusion shall be repaired or corrected*.

(d) Leak detection, fill and overfill prevention *equipment shall be maintained in a functional condition*.

(e) Fire and *leak prevention and detection equipment* installed, but not required by the department's rules, *shall be maintained functional or be removed*.

Note: Section Comm 10.115 (3) (a) 7. allows the authorized agent or the Department or fire department to shut down the tank system until any breach in the tank system is repaired or otherwise corrected.

PECFA Flags



Red font indicate violations that trigger PECFA notification

Dickey, Renee - COMMERCE

From: autosend@commerce.state.wi.us
Sent: Tuesday, August 10, 2010 2:47 PM
To: COM ERS Pecfa
Subject: IIRA/PECFA Violation Notification

Inspector: 35241 - WAYNE A SANTROCH
Transaction ID: 1819280 Investigation Date: 07/29/2010 Facility ID: 55006 SSG HOLIDAY # 3441
706 N 4TH ST, TOMAHAWK

BRRTS Number: 0935292995

Facility Violations:
No facility violations were recorded.

3

Tank Violations:
Reg Obj Id: 413687 Code: NFPA 30.27.5.1.1 Dispenser - fire valve and above or nozzle leak (without containment)
Reg Obj Id: 413687 Code: COMM 10.570 Physical or mechanical damage
Reg Obj Id: 413687 Code: COMM 10.570 Drip or droplets can be seen
Reg Obj Id: 413687 Code: COMM 10.115.3.A Red-tag shut-down immediate - immenent health & safety

Field Notes:
7/29/10-Red tagged 87-Regular hose at dispenser #8 for leak at hose breakaway. Fuel dripping from connection on to island pavement. Ordered repair as needed to stop leak.

2

Field Notes: Sediment/liquid ring around tank sump about half-way mark at point of conduit-wall penatration. Sump smells of gasoline, but recently cleaned out when filters were changed. Observed constant drip from dispenser plumbing with floor covered about 1/8 inch.

Addressing releases

Leak ??? OR Release???

What is the operator seeing?
What is the inspector seeing?
What action should operator be taking?
What action should inspector be taking?

Change of Ownership
Comm 10.150

- Shall notify the department of the change of ownership within 15 business days of completing the real-estate transaction.
- This includes moving from one LLC to another under the same owner.
- Notification shall be on form ERS-7437, ERS-8731 or ERS-10861 E
  - (a) The name and address of the new owner and of a local contact person.
  - (b) The date the documents evidencing the property transfer are executed.
  - (c) The name of the previous owner.
  - (d) The address of all locations included in the real-estate transaction that have tanks which are subject to the registration requirements in s. Comm 10.140.
  - (e) A copy of the newly recorded deed showing the new owner.
- A permit application, form ERS-7658, shall be completed and submitted to the department within 15 business days of its receipt; and shall include all of the following:
  - (a) Proof of financial responsibility in accordance with subch. VII.
  - (b) An affidavit of financial responsibility in accordance with s. Comm 10.745 (2)
  - (c) Any fees due to the department as assessed under chs. Comm 2 or 48.
- All records that are required to be retained under either s. Comm 10.400 (11) or Comm 10.500 (9) shall be transferred to the new owner or operator.
- The authorized agent or the department shall inspect the tank system and dispensing system before the new owner puts the tank system into service.

Change in Leak Detection

Comm 10.110(3)(e) Where there is an upgrade or addition to the leak detection system, regardless of tank size, including any of the following:

1.A change in manufacturer.
2.A change in model number.
3.A change in methodology.

Note: Examples of changes in methodology include switching from a mechanical line leak detector to an electronic one or changing from statistical inventory reconciliation (SIR) to an automatic tank gauge (ATG).

Note: A change from another leak detection methodology to statistical inventory reconciliation (SIR) is not required to have plan review but must follow the registration requirements in section Comm 10.140 (2).

Comm 10.140(2) Registration deadlines and responsible party. (a) The owner of a newly-installed storage tank shall have the tank registered with the department in accordance with sub. (3) within 15 business days of completion of the installation.

Dispenser Continuity Test

- Retail & Non retail motor vehicle dispensing
- Annual
- “Qualified” person – does not have to be an PE company employee
- Proper equipment

Will be repealed from code when majority of gasoline powered vehicles are equipped with (OBVR) “on-board vapor recovery” systems.”

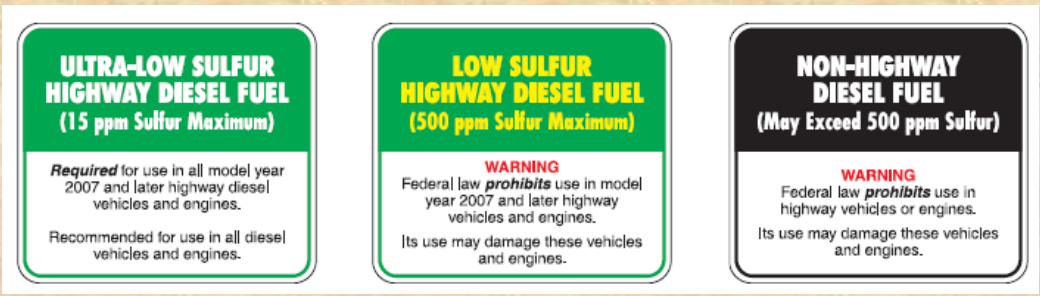
Biofuels

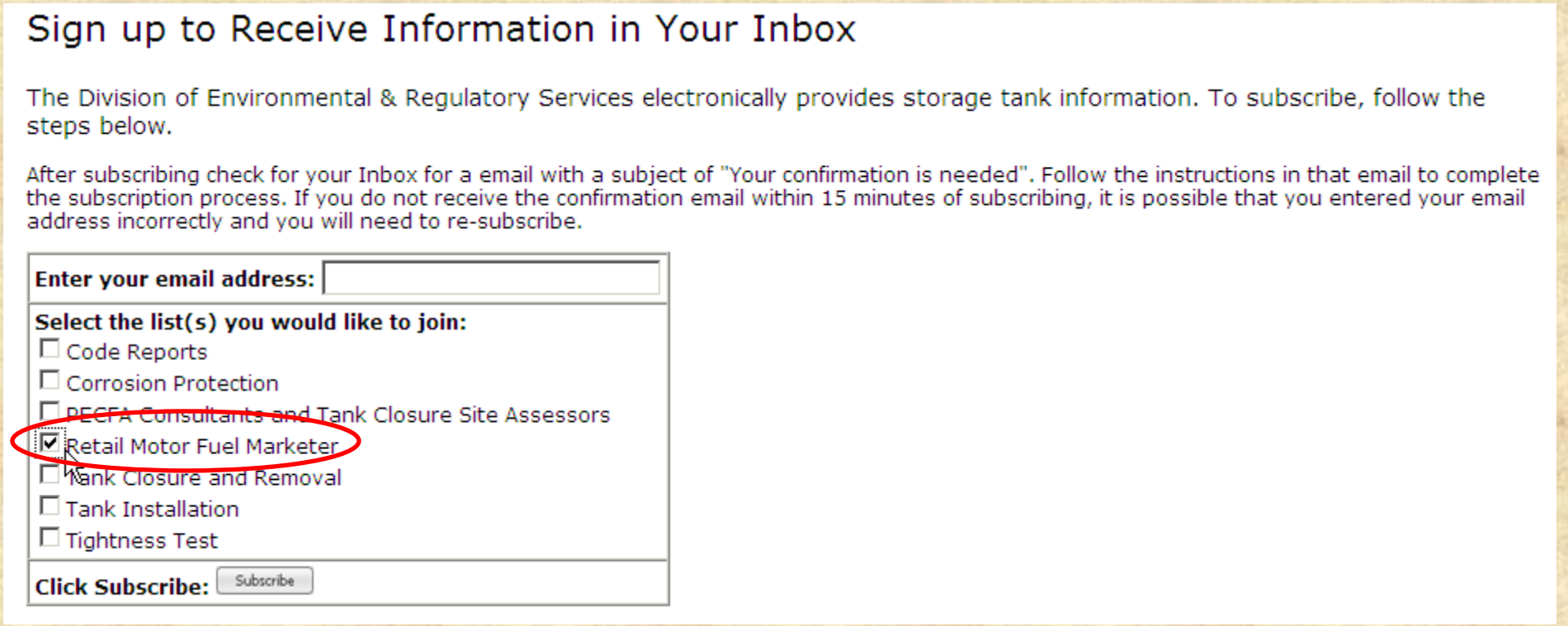
- Ethanol blends *Pending*

E10 → E15 → E20

Accelerated corrosion in less than 6 months in sump with ethanol blended motor fuel. Current suspicion is the degradation of ethanol leading to the formation of acetic acid in a confined space – acetic acid vapors in a confined space might be a plausible explanation.

- ULSD





http://commerce.wi.gov/ER/ER-BST-Signup.html

Questions?

STATE OF WISCONSIN
DEPARTMENT OF COMMERCE
http://www.commerce.state.wi.us

SHELDON H. SCHALL

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