



South Carolina Department of Health and Environmental Control

Underground Storage Tank Management Division

2018 Fall Workshop

October 17, 2018

Purpose of this Workshop

- Compliance Outreach
- Develop partnership
- Address questions

*What is your role in the petroleum industry?

- Tank Owner
- Operator
- Contractor
- Other

***Are you aware that the South Carolina UST regulation was amended on May 26, 2017?**

- Yes
- No

***Are you aware of the South Carolina UST regulation requirements that must be met by May 26, 2020?**

- Yes
- No

***Are you aware of the free online A/B Operator training course?**

- Yes
- No

Let's Talk...

- New Requirements effective on May 26, 2017.
- Requirements to be met by May 26, 2020.



New Requirements Effective as of May 26, 2017

- Ball Float Vent Valve – No new installs.
- Testing after repair
- 24-hour release notification
- Certificate of Financial Responsibility
- Closure of internally lined tanks that fail lining inspections and cannot be repaired.

New Requirements Effective as of May 26, 2017 *continued...*

- Notification for:
 - An ownership change.
 - Change-in-service and closure (in writing).
 - Piping and/or dispenser replacement (in writing).
- New groundwater/vapor monitoring site assessments after May 26, 2017 must be signed by licensed professional.

QUESTIONS

Regarding May 26, 2017
requirements?

***Releases should be reported to the DHEC within 24 hours?**

- True
- False

***A new tank owner must notify DHEC of a change in tank ownership within how many days of acquisition?**

- 30 days
- 60 days
- 90 days

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May 26, 2020 New Requirements

Testing of Release Detection Equipment

No Later than May 26, 2020:

- **Annual** testing of release detection monitoring equipment is required.



Testing of Release Detection Equipment *continued...*

Maintain records of annual operation tests for three years. Records must include:

- Each component tested;
- Result (pass/fail); and,
- Corrective action needed and/or taken.

Testing of Release Detection Equipment *continued...*

Testing documentation options:

- Use a DHEC form;
- Use a DHEC approved form; or
- Have your own forms approved by the DHEC.

Testing of Release Detection Equipment *continued...*

To meet the testing requirements, you should follow:

- Manufacturer's specifications;
- Code of practice; or
- Requirements determined by DHEC to be "no less protective" than the above. *Must get prior DHEC approval.

Testing of Release Detection Equipment *continued...*

Release detection equipment to be tested:

- Automatic Tank Gauge (ATG)
- Automatic Line Leak Detector
- Vacuum Probes/Pressure Gauges
- Hand-held Electronic Sampling Equipment

Testing of Release Detection Equipment *continued...*

Automatic Tank Gauging (ATG)

- ATG Console and other controllers
 - Test the Alarm
 - Verify system configuration
 - Test battery backup



Testing of Release Detection Equipment *continued...*

ATG Probes and Sensors - inspect for:

- Residual buildup;
- Float movement;
- Shafts undamaged/operational;
- Cables overall condition (no kinks/breaks);
and,
- Test alarm operability and
communication with controller



Testing of Release Detection Equipment *continued...*

Automatic Line Leak Detector

- Mechanical and Electronic
 - Must be able to detect a 3.0GPH leak within one hour at 10psi.
- Ensure the device activates:
 - Alarms
 - Restricts flow (slow flow)
 - Shuts off flow (no flow)



Testing of Release Detection Equipment *continued...*

Vacuum Probes/ Pressure Gauges

- Equipment must communicate with sensors and the controller.



Testing of Release Detection Equipment *continued...*

Hand-Held Electronic Sampling Equipment

- Used for groundwater or vapor monitoring.
- Ensure equipment is operational and properly calibrated each month.
- Calibration records must be maintained for one year.



QUESTIONS

Regarding Testing of Release Detection Equipment?

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Containment Sump Testing

No later than May 26, 2020:

- **3 year** testing required for containment sumps only when used for interstitial monitoring.
- Testing not required if using a double-walled containment sump with 30-day interstitial monitoring.
- Forms/Instructions available on DHEC website.

Containment Sump Testing

Testing options:

- Perform a hydrostatic or vacuum test on containment sumps.
- Low level testing allowed if sump sensors are in place with positive shut down.



QUESTIONS

Regarding Containment
Sump Testing?

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Spill Bucket Testing

No later than May 26, 2020:

- **3 year** testing required for spill buckets
- Testing not required if using a double-walled spill bucket in conjunction with 30-day interstitial monitoring.
- Forms/Instructions available on DHEC website



Spill Bucket Testing

Testing options:

- Perform hydrostatic test; or,
- Perform vacuum test.



QUESTIONS

Regarding Spill Bucket Testing?

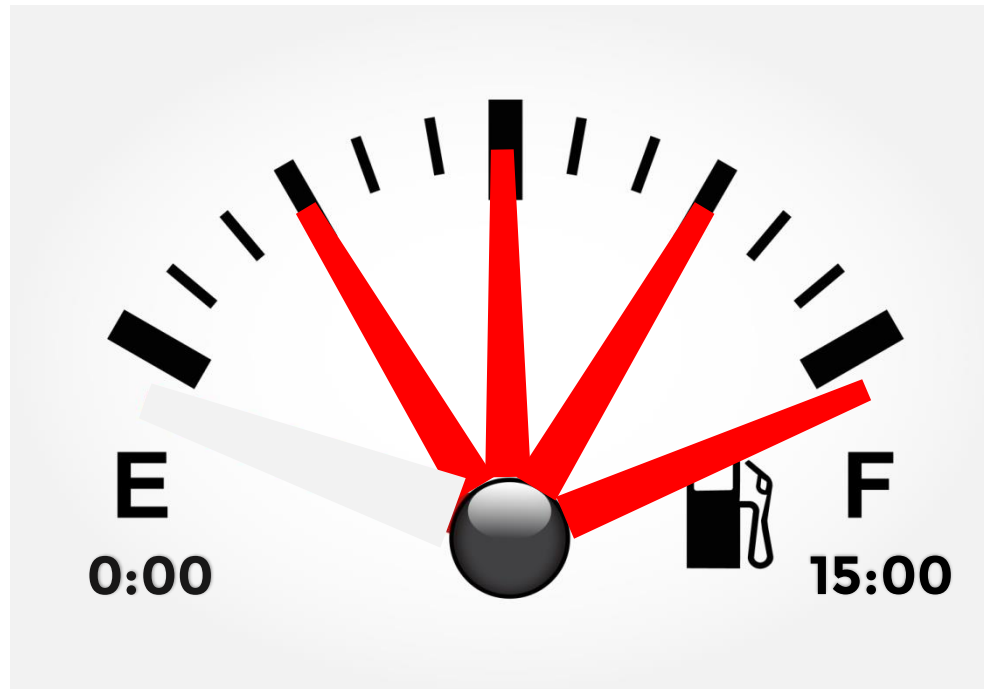
*How should documentation of testing be submitted to DHEC?

- A DHEC form.
- A DHEC approved form.
- Submitted in a format as approved by DHEC.
- All of the Above.

*How often are containment sumps/spill buckets required to be tested?

- Every 30 days
- Annually
- Every 3 years

15 Minute Break



Overfill Prevention Inspection

No later than May 26, 2020:

- Inspection of equipment required at least once every 3 years. Inspection must ensure:
 - Overfill equipment is set to activate at the correct level
 - Equipment will activate when regulated substance reaches that level
- Forms/instructions available on DHEC website

Overfill Prevention Inspection

continued...

Overfill Prevention equipment to be inspected:

- Ball Float Vent Valve
- Drop Tube Shut Off Valve
- Audible/Visual Alarm

Overfill Prevention Inspection *continued...*

Ball Float Vent Valve (BFVV)

- BFVV must activate at proper level in tank.
- BFVV must operate properly and components must be free of damage and corrosion.



Overfill Prevention Inspection *continued...*

BFVV repair options:

- Repair and retest; or,
- If unable to repair properly, then install a drop tube shut off valve or audible/visual alarm.



Overfill Prevention Inspection *continued...*

Drop Tube Shut Off Valve (DTSO)

- DTSO must function properly and components must be free of damage and corrosion.



Overfill Prevention Inspection *continued...*

DTSO repair options:

- Repair and retest; or
- Install new Drop Tube Shut Off Valve; or
- Install Audible/Visual Alarm.



Overfill Prevention Inspection

continued...

Audible/Visual Overfill Alarm

- Alarm placed properly.
- Alarm engages at proper tank level.
- Alarm notifies delivery driver.



Overfill Prevention Inspection *continued...*

Audible/Visual Overfill Alarm repair options:

- Repair and retest; or
- Install new Drop Tube Shut Off Valve.



QUESTIONS

Regarding Overfill Prevention Inspection?

*How often is overfill prevention equipment inspected?

- Annually
- Every 3 years
- Every 5 years

*** Do South Carolina UST Regulations allow a Ball Float Vent Valve be replaced at an existing facility?**

- Yes
- No

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Operator Training

Currently trained A/B operators:

- Supplemental training module with the new regulatory requirements is available on-line for A/B operators that completed training prior to May 26, 2017.
- Must complete this supplemental training no later than May 26, 2020.

Operator Training *continued...*

New A/B Operators (after May 26, 2017):

- Must take all applicable modules of the online training course on DHEC website.
- The online training course has been updated to include new regulatory requirements.

Operator Training *continued...*

Training options:

- Free online training course on DHEC website; or
- 3rd party testers approved by DHEC; or,
- May contact DHEC to schedule individual training or classroom training for a group.

QUESTIONS Regarding Operator Training?

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Walkthrough Inspections

**No later than May 26, 2020,
must begin:**

- **30 day** inspections of spill prevention and release detection equipment.
- **Annual** inspections of containment sumps and hand held release detection equipment.
- Forms/instructions available on DHEC website.



Walkthrough Inspections

continued...

Documenting Walkthrough Inspection Options:

- Use Walkthrough Inspection form, available on DHEC website;
- Combine the Walkthrough Inspection form and Operator training form, available on DHEC website;
- Use the PEI RP1200 form and Operator training form; or
- Create your own form and get DHEC approval prior to use.

Walkthrough Inspections

continued...

Spill prevention equipment (every 30 days):

- Visually check for damage;
- Remove liquid/debris;
- Check/remove fill pipe obstructions;
- Check fill cap to make sure it is secure; and,
- If double-walled with interstitial monitoring, check for a leak in the interstice.

Walkthrough Inspections

continued...

Release detection equipment (every 30 days):

- Make sure there are no alarms;
- Make sure there are no unusual operating conditions present; and,
- Ensure records are reviewed and current

Walkthrough Inspections

continued...

Containment sumps (annually):

- Visually check for damage;
- Look for leaks to the containment area or releases to the environment;
- Remove liquid (in contained sumps) or debris; and,
- For double-walled sumps with interstitial monitoring, check the interstitial space for leaks.

Walkthrough Inspections

continued...

Hand-held release detection equipment (annually):

- Check operability and serviceability.
- Examples of this type of equipment:
 - Tank gauge sticks
 - Groundwater bailers



QUESTIONS

Regarding Walkthrough
Inspections?

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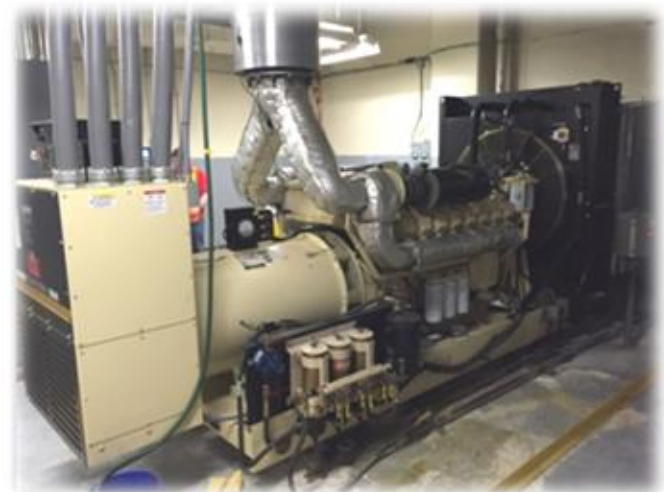


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Emergency Generator UST Systems

No later than May 26, 2020:

- Release detection will be required for all existing systems that were previously exempt.



Airport Hydrant Systems and Field Constructed Tanks

No later than May 26, 2020:

- Existing facilities must submit a one-time notification to DHEC.



Groundwater & Vapor Monitoring

No later than May 26, 2020:

- Records of site assessments must be maintained for as long as these monitoring methods are used.



QUESTIONS

Regarding Emergency
Generators, Airport
Hydrants, Field
Constructed Tanks?

*Was this information beneficial?

- Yes
- No

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