NEW REQUIREMENTS FOR UST SYSTEMS
North Carolina's Updated UST Regulations
Effective June 1, 2017


All forms mentioned below can be found on our website.

Monthly Walkthrough Inspections
Walkthrough inspections of spill prevention (spill buckets) and release detection equipment are required every month*. The UST-27 form should be used to record this monthly inspection.

The first walkthrough inspection must be completed, and recorded on the form, by October 13, 2018. The forms must be kept for 12 months.

*Note: If you can document that you receive fuel deliveries that are 30 days or more apart, you can perform the spill bucket inspection before each delivery.

Annual Walkthrough Inspections
Walkthrough inspections of sump areas (contained or uncontained) and hand-held release detection equipment are required every year (examples of hand-held release detection equipment include tank gauge sticks and groundwater bailers).

The UST-22B form should be used to record the yearly inspection of release detection equipment, and the UST-22C form should be used to record the yearly inspection of sump areas.

The first walkthrough inspection must be completed, and recorded on the applicable form, by October 13, 2018. The forms must be kept for 12 months.

Overfill Prevention Equipment
Inspection of overfill prevention equipment is required every three years.

Overfill inspections must ensure two things: 1. That the equipment is set to activate at the correct level, and 2. that the equipment will activate when regulated substance reaches that level.

Also, flow restrictors (ball float valves) can no longer be used as an overfill method when replacing or installing a new overfill prevention device on or after June 1, 2017. If a ball float valve that is currently in use fails a test or inspection, then it must be replaced with a high-level alarm or an automatic shutoff device (flapper valve).

When replacing a ball float valve with a flapper valve, the ball float valve assembly must be removed. The ball float valve assembly can remain only if documentation is provided showing that the ball float valve will not interfere with the operation of the flapper valve. The ball float valve assembly does not have to be removed if a high-level alarm is used.

The UST-22A form should be used to record overfill inspections. The first inspection must be completed, and recorded on the form, by October 13, 2018. After that, an inspection is required every three years*.

Each UST-22A form must be kept for three years*.

Spill Prevention Equipment
Spill prevention equipment (spill buckets) must be tested every three years or be double-walled and the integrity of both walls monitored at least every 30 days*. The UST-23A form should be used to record tests of spill prevention equipment.

The first test must be conducted, and recorded on the form, by October 13, 2018. After that, a test is required every three years.

Each UST-23A form must be kept for three years.

* Note: Spill buckets installed after November 1, 2007 must be double-walled, continuously monitored, as well as tested every three years (unless monitored using vacuum, pressure or hydrostatic methods).

Containment Sumps Used for Interstitial Monitoring of Piping
Containment sumps that are used for interstitial monitoring of piping must be tested every three years or be double-walled and the integrity of both walls monitored at least once per year*.

The UST-23B form should be used to record containment sump tests. The first test must be conducted, and recorded on the form, by October 13, 2018. After that, a test is required every three years.

Each UST-23B form must be kept for three years.
tightness testing for suction piping. Piping that can be
demonstrated to be European suction is exempt from
the release detection requirement.

In addition, if a supply or return line associated with an
emergency generator tank is pressurized, then an
automatic line leak detector (ALLD) is required. The
functionality of an ALLD (ELLD or MLLD) must be tested
annually.

For more information about North Carolina’s release
detection requirements in general, refer to 15A NCAC
02N 0501-.0506. Additionally, you may refer to NC’s
plain-language publication titled Operation and
Maintenance Manual for USTs which summarizes
release detection methods.

Records demonstrating compliance with release
detection must be kept for 12 months.

* Note: Emergency generator USTs and associated piping that
were installed after November 1, 2007 must already be
meeting release detection requirements with interstitial
monitoring.

Vapor and Groundwater Monitoring

Facilities using vapor or groundwater monitoring must
keep a record of site assessments for as long as the
method is used.

SIR Performance Criteria

Owners and operators of USTs using Statistical
Inventory Reconciliation (SIR) to meet the federal tank
release detection requirement must determine the leak
status of their USTs within a 30-day monitoring period.
EPA established the 30-day monitoring period in the
1988 federal UST regulation and re-confirmed it in the
2015 federal UST regulation.

For More Information

For more information about the new requirements,
contact the NCDEQ Division of Waste Management
UST Section at 919-707-8171 or visit our website at
http://deq.nc.gov/about/divisions/waste-
management/ust.
## AT A GLANCE – NEW REQUIREMENTS

<table>
<thead>
<tr>
<th>New Requirement</th>
<th>Frequency</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminate flow restrictors (ball float valves) as overfill prevention method</td>
<td>At installation or when replaced</td>
<td>Beginning on 6-1-17</td>
</tr>
<tr>
<td>Add SIR to regulation with performance criteria (determine leak status within a 30-day monitoring period)</td>
<td>One time</td>
<td>Beginning on 6-1-17</td>
</tr>
<tr>
<td>Site assessment – vapor or groundwater monitoring</td>
<td>One time</td>
<td>By 10-13-18</td>
</tr>
<tr>
<td>Remove release detection deferral for emergency generator tanks</td>
<td>One time</td>
<td>By 10-13-18</td>
</tr>
<tr>
<td>Remove deferral for airport hydrant fuel distribution systems</td>
<td>One time</td>
<td>By 10-13-18</td>
</tr>
<tr>
<td>Remove deferral for systems with field-constructed tanks</td>
<td>One time</td>
<td>By 10-13-18</td>
</tr>
<tr>
<td>Overfill prevention test after repair</td>
<td>Within 30 days of repair, <em>UST-22A form</em></td>
<td>Beginning on 10-13-18</td>
</tr>
<tr>
<td>Spill prevention inspection after repair</td>
<td>Within 30 days of repair, <em>UST-23A form</em></td>
<td>Beginning on 10-13-18</td>
</tr>
<tr>
<td>Secondary containment test after repair</td>
<td>Within 30 days of repair</td>
<td>Beginning on 10-13-18</td>
</tr>
<tr>
<td>Walkthrough inspections for spill buckets and release detection</td>
<td>Every month, <em>UST-27 form</em></td>
<td>First by 10-13-18, monthly thereafter</td>
</tr>
<tr>
<td>Walkthrough inspections for sumps and hand-held release detection equipment</td>
<td>Every year, <em>UST-22B</em> and <em>UST-22C</em> forms</td>
<td>First by 10-13-18, annually thereafter</td>
</tr>
<tr>
<td>Operability tests for release detection equipment</td>
<td>Every year, <em>UST-22B form</em></td>
<td>First by 10-13-18, annually thereafter</td>
</tr>
<tr>
<td>Overfill prevention inspections</td>
<td>Every 3 years, <em>UST-22A form</em></td>
<td>First by 10-13-18, every three years thereafter</td>
</tr>
<tr>
<td>Spill prevention equipment tests</td>
<td>Every 3 years, <em>UST-23A form</em></td>
<td>First by 10-13-18, every three years thereafter</td>
</tr>
<tr>
<td>Testing of containment sumps used for interstitial monitoring of piping</td>
<td>Every 3 years, <em>UST-23B form</em></td>
<td>First by 10-13-18, every three years thereafter</td>
</tr>
</tbody>
</table>

1 *Table does not include existing requirements in 15A NCAC 02N.0901-.0907 for equipment installed on or after 11-1-07*

2 *Details not included in this publication*