

2014 Tank Tips:

January 2014, Tank Tip, Correct Notification Form:

Beginning January 2014, a reminder will be sent to all facilities with line leak detection and cathodic protection tests that are due or will soon be due to be re-tested. For most of, you this will simply require submitting the most recent test results so we can update the record. For those that need to have the tests conducted, submit the results upon completion of the required tests. The goal of this effort is to provide a reminder for operators to schedule testing before it is due and reduce the number of operators required to undergo retraining.

February 2014, Tank Tip, Request for Leak Detection and Leak Prevention Tests:

Using the correct form for UST removal, installation, or notification will save you time (and money). Periodically the DERR streamlines or updates processes by editing existing forms

- DERR web page lists the most current UST notification forms
http://www.undergroundtanks.utah.gov/ust_forms.htm
- The most recent form updated is the UST Closure Plan, July 2013
- For questions about current forms, please contact the UST compliance section at [801-536-4100](tel:801-536-4100)

March 2014, Tank Tip, Request for Leak Detection and Leak Prevention Tests:

The annual petroleum product throughput declaration form is mailed to Petroleum Storage Tank (PST) Fund participants in March each year. This form provides tank operators the opportunity to declare the amount of total product a facility sold the previous year. The amount of product sold determines the annual cost per tank for the PST Fund fees for that facility.

- Watch for the throughput form and instructions in the mail in the next month.
- Changes proposed this legislative session may affect how much you pay for PST Fund fees.
- Failure to return the completed throughput form may result in assessment of higher annual PST Fund fees.

April 2014, Tank Tip, Change In PST Fees and Through-Put Form:

LEGISLATION WAS PASSED THIS MONTH THAT MAY AFFECT HOW MUCH YOU PAY FOR ANNUAL PST FUND FEES

House Bill 138 states:

- any facility that does not submit a throughput form by the date required will be subject to a PST Fund assessment of \$450.00 per tank,
- any facility with a throughput volume of 70,000 gallons or less per year will also pay \$450.00 per tank,
- any facility with a throughput volume greater than 70,000 gallons per year will be assessed \$150.00 per tank, and
- HIGH THROUGH PUT FACILITIES MUST DECLARE ACTUAL THROUGHPUT VOLUME TO RECEIVE THE LOWER RATE OF \$150.00.

WATCH FOR THE THROUGHPUT FORM IN THE MAIL AND RETURN IT PROMPTLY

May 2014, Tank Tip, Change To Compartment UST Fees For All Tank Owners:

House Bill 138, which passed this legislative session, modified rules relating to annual registration fees for underground storage tanks (USTs) for all tank owners and Petroleum Storage Tank (PST) Fund fees for those who participate in the Fund.

- Starting July 1, 2014, compartmented tanks (including siphoned tanks) will be charged an annual registration fee and annual PST Fund Fee (if they are on the PST Fund) for each compartment.
- Registration fees remain \$100 for tanks on the Fund and \$200 per tank for non-participants.
- Annual PST Fund fees were outlined in the April Tank Tip.
<http://www.undergroundtanks.utah.gov/docs/2014/03Mar/CombinedTankTips.pdf>
- Watch for more information in future Tank Tips and in the upcoming “Utah Tank News” newsletter.

June 2014, Tank Tip, Through-Put Fee Increase & Initial Discussion About Rebate:

Last month’s Tank Tip discussed how House Bill 138 changed requirements for Underground Storage Tanks (USTs). Changes for PST Fund covered tanks include:

- The PST Fund throughput fee will increase from a half (1/2) cent per gallon to thirteen-twentieths (13/20) of a cent per gallon. This change is effective January 1, 2015.
- Starting January 1, 2015, some PST Funded facilities will be eligible for rebates of a portion of the throughput fee.
- The amount of the rebate will depend on risk factors including secondary containment as well as the type and age of the UST equipment.
- More information on rebates will be provided in future Tank Tips and in the upcoming “Utah Tank News” newsletter.

2013 Tank Tips:

January 29, 2013, Tank Tip, Impacts of Ethanol Mixing with Water:

It is the snow and water season and operators should prevent water from entering their tanks. Water enters tanks through drain valves in spill buckets, water accumulating in spill buckets above the top of the fuel drop tube and shallow groundwater entering loose tank bungs or risers. View this <http://www.undergroundtanks.utah.gov/docs/JanLink.pdf> to read how water can impact your tanks and your profits.

<http://www.undergroundtanks.utah.gov/docs/JanLink.pdf>:

As a petroleum marketer you need to know some important facts about gasoline that contains ethanol. Ethanol mixes well with petroleum – **as long as no water exists in the system**. Any water entering your UST will strip the ethanol (which is a high octane component of your fuel) from the petroleum, and deposit it in a water/ethanol mixture on the bottom of your tank. This process is called “phase separation”. With each load of fuel the percent ethanol in the water phase at the bottom of your tanks will increase, and any water that enters your tank will allow more ethanol to strip out.

As a result of this phase separation, you run the risk of either selling lower octane fuel that will cause engine performance to decrease or selling ethanol and water mixture that will cause engine failure - either way you end up with unhappy customers. In addition, if your fuel is found to be off spec by Weights and Measures, you may be required to dispose of the entire tank of product and bring in fresh product. Also, they do not allow you to dump additives (splash blending) into your USTs to restore the octane.

In addition to the potential damage to vehicles, phase separated fuel will cause corrosion of the interior of unlined steel underground tanks. Before ethanol, that initial layer of rust called a patina (ferric hydroxide and carbon from the steel) would actually help protect the underlying steel. In the presence of ethanol, this protective patina can be stripped away and leaves fresh steel which will corrode with the introduction of water. External cathodic protection and tank

coatings do not protect tanks from internal corrosion. The three most common ways water enters into your USTs are: 1) by the drain valves on your spill buckets, 2) allowing spill buckets to accumulate water above the top of the drop tube, and 3) seepage or ground water entering through loose top bungs or risers. All of these sources of water can be easily prevented with good housekeeping practices.

If you think you're safe because you have Fiberglass Reinforced Plastic (FRP) tanks - that may not be true. Prior to the 1990 standard, FRP tanks were only designed to be exposed to up to 10% ethanol. Post 1990, most were designed to be compatible with 100% ethanol. We have received anecdotal information that some southern states have observed that in the presence of higher percentage ethanol fuels the resins in some FRP tanks dissolve leaving only the fiberglass netting resulting in major cleanups. The information is preliminary and we don't yet

know the cause of these failures, but you can decrease the chance for problems by knowing the manufacture date of your tank.

To determine phase separation in any UST you must use an ethanol compatible paste on the end of a traditional wooden measuring stick and dip the tank. Automatic tank gauge (ATG) probes which determine both water and fuel levels in your tank, cannot determine phase separation because of the changing density of phase separated ethanol, as more water mixes with the ethanol in your tank

February 2013 Tank Tip Sent 3/1/2013 Annual State Inspection Preparation:

When preparing for an inspection of an Underground Storage Tank with the State inspector, gather the following information:

- monthly site inspection check list
- monthly and annual leak test results
- cathodic protection test completed within the last three years for most steel tanks and piping

If you have any questions, please access this [link](#) to contact your project manager or call [801 536-4100](tel:8015364100).

Link=http://www.undergroundtanks.utah.gov/ust_contacts.htm# = Utah on-line map showing geographic areas managed by UST product managers

March 2013 Tank Tip Sent 4/8/2013 Safety Tip #1

The DERR is concerned about safety and provides monthly Safety Tips to UST project managers conducting inspections. Three safety tips that may be helpful during your inspections are:

1. Inspectors should be aware of all on-site auto traffic when performing inspections.
2. Never turn your back on an automobile entry zone to your gas islands or your station.
3. You are always invisible to a driver, even after they have acknowledged that they see you.

Safety tips are suggestions only and are not to be construed as required by either Utah or Federal law nor are they a guarantee that you, your employees, or contractors will be safe if the tips are followed. The State of Utah/DEQ/DERR assumes no responsibility for an individual's safety while performing monthly inspections of UST systems.

April 2013 Tank Tip Sent 4/24/13 Red Tag Removal Process

A red tag/no fuel program was started in January 2013 in order to identify tanks that are ineligible to receive fuel (see [November 30, 2012 Tank Tip](#)). Newly installed tanks are one

example of tanks that would receive a red tag. Red tags should remain on new tanks until a certificate of compliance and a letter authorizing the removal of the red tag are provided by the DERR Division Director to the tank owner. Generally the approval letter can be provided within a day following submitting a complete Certificate of Compliance packet to the DERR.

May 2013 Tank Tip Sent 5/29/13 Additional Use of a Red Tag

Last month's tank tip explained that newly installed tanks are "red tagged" to prevent receiving fuel until a Certificate of Compliance is issued for the tank.

A regulated tank could also be red tagged if:

- It does not have spill/overflow prevention equipment, leak detection equipment or corrosion prevention equipment, or
- The tank's Certificate of Compliance has been revoked for noncompliance with UST requirements.

In either case, a tank is not able to receive fuel until the DERR issues written authorization to remove the red tag.

June 2013 Tank Tip Sent 6/26/13, Level B Monthly Inspection Requirements. Part 1

In January 2012, Level B operators began required monthly inspections of their tank facilities. During 2012 and into 2013 annual compliance tank inspections conducted by your State or Local Health Department inspectors, were used to educate and train Level B operators on the requirements of performing monthly inspections.

- Violations that would normally require the B Operator to retake the class and exam were handled through on-site training by the inspector.
- Going forward, these violations will require retraining by retaking the class and the examination.
- If you have questions about the monthly checklist, please get with a member of the UST compliance team, [\(801\) 536-4100](tel:8015364100), to assist you before your next inspection.

July 2013 Tank Tip Sent 8/5/13, Level B Monthly Inspection Requirements, Part 2

June's Tank Tip discussed monthly inspections that Class B UST operators are required to conduct. For July, we want to highlight three areas of focus for the Class B operators to ensure compliance with UST requirements each month:

- Document compliance with release prevention and with release detection. <http://www.undergroundtanks.utah.gov/docs/JulyTankTipLink1.pdf>
- Conduct proper monthly tank inspections and properly document monthly UST operator inspections as defined in R311-206-12(h). <http://www.undergroundtanks.utah.gov/docs/JulyTankTipLink2.pdf>

- Document that Class C operators are both trained and registered and on-site during all operating hours.

August 2013 Tank Tip Sent 8/29/13, Water Entry and Repair Options

Common tank system issues and concerns that state inspectors see during inspections include:

- Broken or non-sealing submersible turbine pump (STP) lids,
- Broken, warped, or improperly installed sump entry boots for piping or electrical conduits,
- Cracked spill buckets.

These problems are often the source of water getting into your tank system and can result in poor quality product or even failure of your tank system. If you observe these problems, don't wait for a state inspection to take care of them. Talk with your maintenance provider or state tank program representative- often low cost repairs are available at a fraction of the cost to break concrete or asphalt and replace a sump or spill bucket.

September 2013 Tank Tip Sent 9/26/2013, Safety Tips for Inspections

Using correct equipment will increase safety during the monthly walkthrough inspection at UST facilities. Consider the following tips:

- Place waist-high cones in the work area and wear safety vests while conducting the inspection,
- Use knee pads to protect your knees and keep them dry and
- If needed, use manhole lid remover to lift heavy steel manhole covers (for examples click here- [Lid Lifter](#))

Watch next month for tips on maintaining sump lids and other covers on your site.

October 2013 Tank Tip Sent 10/29/2013, Maintaining Sump Lids

Damaged lids, skirts and supports on submersible turbine pump (STP) sump and spill bucket lids can make monthly inspections difficult. The following tips may help:

- If the skirt has been damaged and is preventing removal of the lid, use a 48 oz. sledge hammer and a small pry bar to bend the damaged portion back from the lids.
- Snow removal equipment is often the source of damaged skirts and lids. When possible, place cones on both the STP sump lids and the spill bucket lids during snow removal to prevent damage or stockpiling of snow on top of the lids.

November 2013 Tank Tip Sent 12/3/2013, Bill Moore Retiring

Many of you know or remember Bill Moore, a Utah UST Environmental Scientist. Bill will be retiring from DERR on December 28, 2013. Bill started with Utah Division of Oil Gas and Mining in 1984, where he worked for 4 years before transferring to the Utah UST program. Bill has worked in the UST Section for 26 years and has greatly contributed to the UST program. Bill also represented DEQ on a national work group, which ensures that UST leak detection equipment is third party certified to perform per manufacture's description. Good Bye Bill and Thanks.

[December 2013 Tank Tip Sent Was Sent and Labeled as 1/9/2014, Tank Tip](#)

2012 Tank Tips:

[October 12, 2012 Tank Tip, Thank You:](#)

To help tank owners and operators become familiar with best practices and maintain compliance with UST laws and regulations, DEQ will periodically provide brief, electronic "Tank Tips" about operator training, monthly inspections, and other aspects of UST operation. The goal of this effort is to strengthen the partnership between DEQ and the UST community by assisting UST owners and operators in their efforts to reduce the risk for spills and leaks (that may impact their surrounding neighbors, disrupt their daily business and impact their monthly profits) by helping to maintain compliance with UST regulations.

In this inaugural email, rather than providing a tip, the Utah DEQ Tank Program wants to provide a hearty THANKS to All Utah Tank Owners and Operators for complying with new operator training requirements. We gratefully acknowledge your involvement in creating the training program as well as your effort in getting trained. Through your efforts, Utah leads the way in meeting the operator training requirements with a compliance rate of over 99%. Thank you and stay tuned for our next "Tank Tips" message.

[October 24, 2012 Tank Tip, Notification of Repair & Install:](#)

After the completion of a repair or an installation of a UST system (tank, piping, dispenser, sump, spill bucket, anodes, etc.) the INSTALLER is required to complete the appropriate section of the notification form for the owner and the OWNER is required to submit the form to the UDEQ within 30-days of work completion. The INSTALLER is required to ensure the notification form is submitted by the owner within 30-days or must submit separate notification within 60-days of completion.

November 30, 2012 Tank Tip, No More Tags/Red Tag:

Tank owners no longer need tags to receive deliveries of fuel. In December tank owners will receive the 2013 Certificate of Compliance in the mail, but NO TAGS WILL BE SENT FOR 2013. A red tag/ no fuel program will be used to identify tanks that do not have a certificate of compliance.

December 26, 2012 Tank Tip, Notification Form:

The October Tank Tip reminded UST owners to notify DERR within 30-days after any repair to your UST system or installation of a new UST system. The DERR Notification form is available at: <http://www.undergroundtanks.utah.gov/docs/notify98.pdf>. The UST owner completes pages 1 and 2 and signs page 2; the certified installer completes the sections on pages 3, 4 and 5 that are relevant to the work completed and signs page 5. Contact the UST program at (801) 536-4100 if you have questions.