

Being a Successful UST owner- WE can do it!

The UST "How to" guide

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How to prepare for an inspection

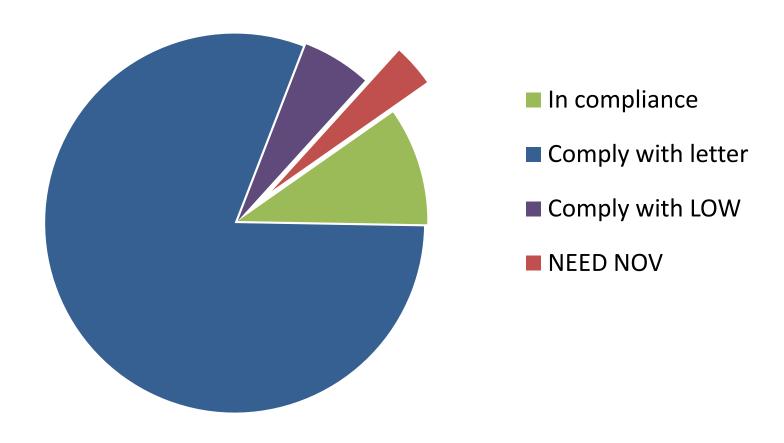
- Don't panic
- Walk through your site
 - Under dispensers
 - Open all lids
 - Check your release detection equipment (ATG, measuring stick, wells)
- Look at previous inspection report
- Call with any questions
- Don't panic

How to respond to an inspection

- Avoid yes/no/completed
- Be as descriptive as possible
 - What was repaired? Replaced? Simply restarted/reset?
- If appropriate, include documentation
 - Invoices or contractor statements
 - Photographs
- Feel free to call for clarification

Inspection Compliance Rates

- From three years of inspections:
 - 4361 compliance inspections
 - 88% of our active site inspections find something
 - Only 10% ever need an LOW
 - Less than 4% have an NOV



How to fix "problem" equipment

- There is typically more than one right answer!!
- Know your site, equipment and configuration
- Regularly using the same contractor helps
- Often we can find alternative ways within our regulations to tackle the problem
- Two heads are better than one!

The more we know, the more flexible we can be.

How to respond to an ATG alarm

- Run a new test
- If you repeatedly have fails, discuss with your ATG technician
- If you cannot pass a test, you need to report it and contact your technician
- Most alarms are not actual leaks
- Check observation wells for product

How to "write your own regs"

- Owners, operators and contractors have valuable field experience to share- do so!
- Offer your advice, input, and preferences
- Ask questions
- Get involved early
- Think outside the box
- Debates and discussions are GOOD

"Violation" prevention

Most common violations

Sites that require some head scratching

Sites that YOU have found unique?

Most common issues found

- Spill basins contain liquid/are damaged
- Metal in contact with soil or water
- ATG/ELLD in alarm
- Overfill prevention inoperable
- Improper inventory control/SIR
- Drive plates damaged
- Leaks (typically small)
- Flexible connector installation

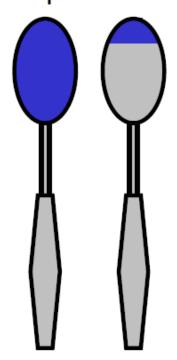


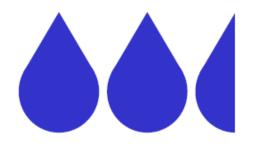
E-10 QUESTIONS & CONCERNS

What exactly is = 0.1 gph?

12.8 ounces/hour = 1.2 teaspoons/minute = 2.5 drops/second

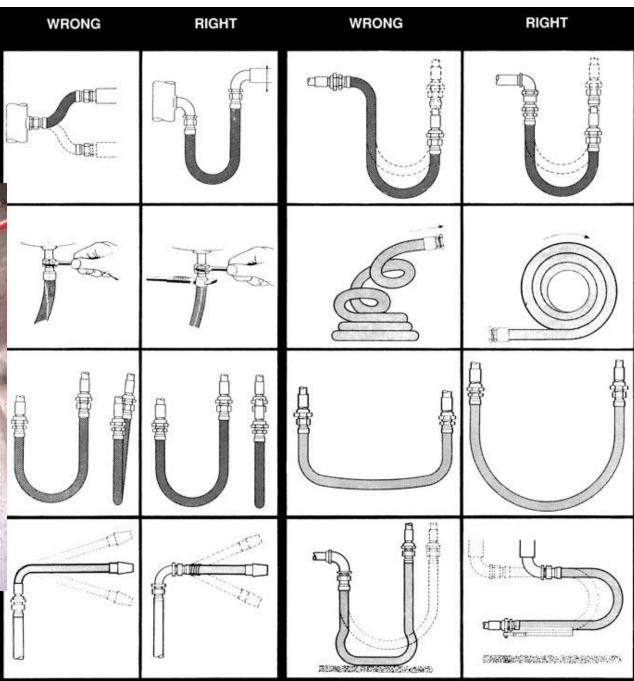






Flexible Connectors







Overfill indicators



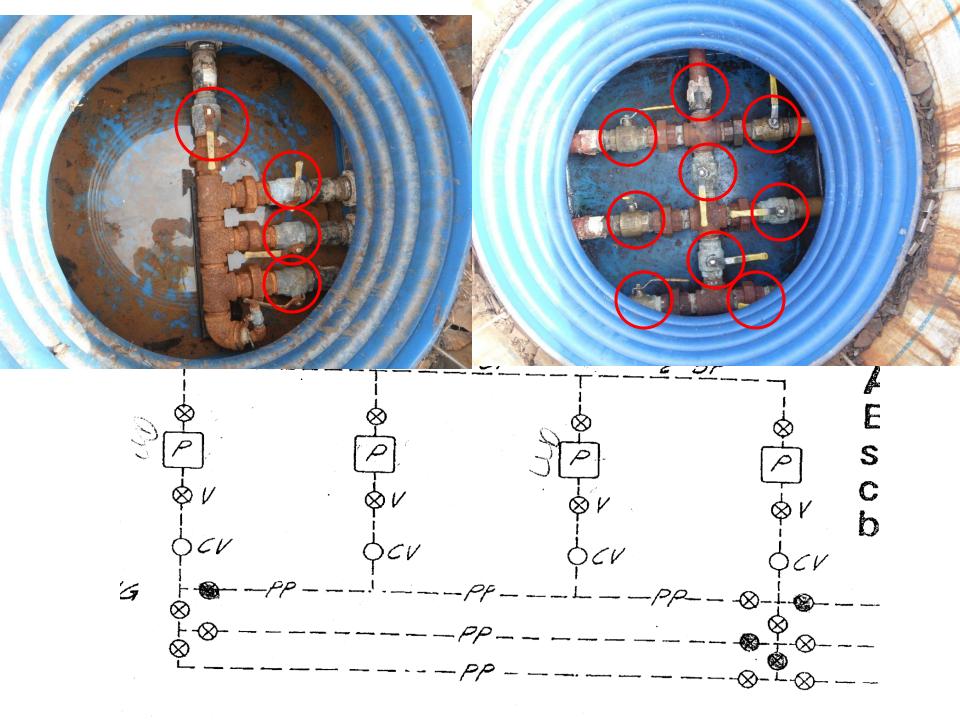
LLDs and piping

- Master/satellite piping systems
- Limitations on total volume
 - Watch on manifold and large diameter runs
 - Different for flex vs rigid piping
- Vertical piping rises
- Backflow prevention valves
- Unique piping configurations
- AST to UST piping



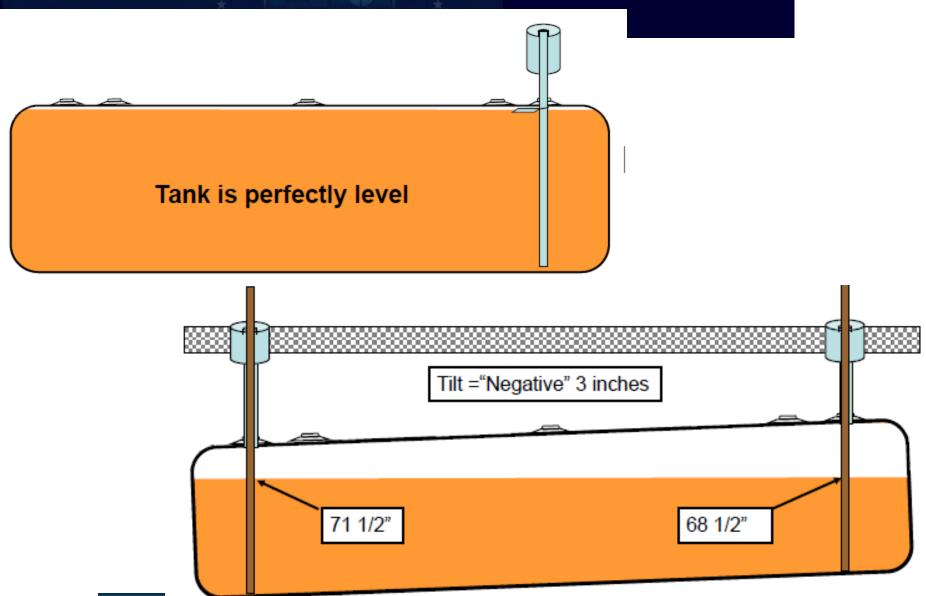


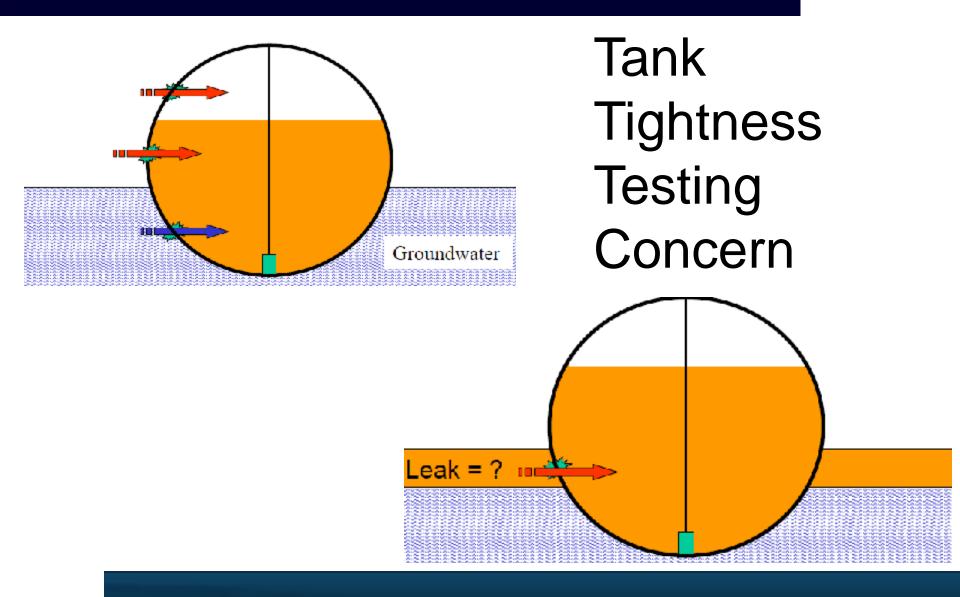




Tank release detection issues

- Siphon connected tanks
- Vapor recovery equipment
- Detecting water ingress
- Tank tightness testing
 - Measuring water ingress in ethanol
 - Product in backfill around tank





Emergency Generator Storage Tanks

- Pressurized piping
 - Sumps sensors / LLD
- Suction piping
 - Safe suction- no testing
 - Unsafe suction- LTT every 3 years
 - No check valves except inside at day tank/pump
 - Piping sloped- all contents run back into tank
 - Tank must be lower than piping end







ANY OTHER UNIQUE SITUATIONS?

Contact us

- Questions about regulations
- Changing your system
- Fixing a problem
- Addressing a leak
- Suggesting new "fixes"
- ANYTHING!

(573) 522-5665 or Tanks-compliance@dnr.mo.gov

We, the regulators, do **not**:

Test the equipment

Fix the equipment

Respond to alarms

Cleanup spill and overfills

Conduct regular maintenance

Clean out the sumps

Train the new staff

Keep track of all the records

Do the sampling

Conduct the cleanups

Close the tanks



Pay for it

Coming together is a beginning; keeping together is progress; working together is success.

--Henry Ford

