Common Problems Found During UST Inspections

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OBJECTIVE:

To visually show some common areas of concern found during UST inspections regarding:

1. Spill buckets
2. Overfill devices
3. STP Sumps
4. Dispensers
5. Temporarily out-of-service USTs
Typical Gasoline Service Station
Spill Prevention Equipment Problems
Product Delivery by Jobber
Spill Bucket Full Of Water/ Product or Debris
Spill Bucket full of product
Unsupported and Cracked Spill Bucket
Corroded Spill Bucket and No Fill Cap
Begin Hydrostatic Test

9 Inches to Water Level
End Hydrostatic Test

12 Inches to Water Level
Elapsed Time = 30 min
Problems With Overfill Prevention Equipment
Overfill Device Disabled by Screwdriver
Overfill Device - Flapper valve

Screwdriver removed
Overfill Device Disabled by Tank Gauge Stick
Problems Found In Submersible Turbine Pump Sumps
No Automatic Line Leak Detector (ALLD)
Water Found in Submersible Turbine Pump Sump
(Continued) Water Found in a Submersible Turbine Pump Sump with double-walled piping used for interstitial monitoring
Product Found In Submersible Turbine Pump Sump
Problems Found In Dispensers
Leaks (from Suction Pump Product Filter) Not Detected
Causing Product To Accumulate In the Secondary Containment Sump
Product In Secondary Containment Sump Going Undetected. Note: Shear Valve Not Anchored
Product Riser Pipe
No Secondary Containment

Product Riser Pipe Not Cathodically Protected
Problems With Automatic Tank Gauges
Automatic Tank Gauge Not Working Properly
Problems With USTs That Are Temporarily Closed
Tanks Temporarily Out Of Service
Power Turned Off For Impressed Current (IC) System

No Electricity to building
Broken Wires For Impressed Current System Anodes
Flexible Product Piping, No Cathodic Protection
No Release Detection For Tanks That Are Temporarily Out Of Service

Product measured in tank using
Product finding paste
SUMMARY:

1. Spill buckets - Keep clean, must be in working order
2. Overfill device - No obstructions that would prevent proper function
3. STP Sumps - Keep water out of the sumps
4. Dispensers - Check dispensers for leaks, remove any product/water
5. Temporarily out-of-service USTs – Must maintain cathodic protection, release detection and financial responsibility until USTs are closed
For Further information, please visit: https://www.epa.gov/ust