Testing Requirements for UST’s and AST’s.

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http://www.tanknology.com/
Testing Requirements for UST’s and AST’s

UST Testing Requirements:

- Owner/Operator must maintain on site the most current copies of all testing, certifications and permits. The minimum testing records required during annual inspections are the following:
  - Annual Monitor Certification Test (Includes LD Test)
  - Annual Fill Spill Bucket Test
  - Initial Tank Test (.2 Monthly or .1 Annually for SW)
  - Initial Line Test (Annual for SW)
  - Annual or Bi-Annual Air Quality Stage I and II testing
  - Tri-annual SB989 Secondary Containment Test
  - Other Test (If Applicable)
AST Testing Requirements:

- Owner/Operator must maintain on site the most current copies of all testing, certifications, plans and permits. The minimum records required during annual inspections are the following:
  - Annual Monitor Certification Test if more than 10% of total product stored is underground (Includes LD Test)
  - Spill Prevention, Control and Countermeasure (SPCC-Title 40, Part 112) must be in place specifying the type of Integrity Testing to be used (SP001 Recommended Standards).
  - Air Quality Standing Loss Control (SLC), Stage I and II testing for Gasoline tanks.
    - VR-301D (Existing AST-SLC)
    - VR-302C (New AST-SLC)
    - CP-206 (Annually for GDF w/SLC)
Testing Requirements UST’s

- Owner/Operator must maintain on site the most current copies of all testing, certifications and permits. These records must be readily available for the inspector to view when visiting a GDF for required annual testing. Also, these documents have to be verified present on a monthly basis by the Designated Operator (DO).

Remember…..One NOV from an Inspector could mean several return visits. You are now under a **Microscope** of continued compliance. Not to mention, the Penalty.
Testing Requirements UST’s

Monitor Certification/LD Test

- This certification must have been performed during the last 12 month period.
Testing Requirements UST’s

Spill Bucket Testing

- Fill adapter spill buckets.
- This test is now normally done with the monitor certification.
- Must be done once every 12 months.
Testing Requirements UST’s

Tank Testing

- This may have been done at startup on double walled tanks.
- Must maintain .2 Monthly tapes/.1 Annual tapes for SW tanks (If not, subject to a precision test).
- Must have most current test available.
Testing Requirements UST’s

Line Tests

- Normally done with Monitor Certification every 12 months if lines are **single wall lines only**.
- Must have most current test available.
Stage II Air Quality Inspection

- Stage II Compliance. Annual test and inspections as follows:
  - Stage II Daily Check Sheet (Owner Responsibility)
  - Visual Inspection of Hanging Hardware (Owner Responsibility)
  - Monthly Throughput (Owner Responsibility)
  - Annual/Bi-annual/Quarterly Testing (Hired Third Party Required-Certifications needed).
Testing Requirements UST’s

- Secondary containment testing completed within the required testing period.
- Within 6 months from opening and every 3 years thereafter.
Testing Requirements UST’s

Other Testing

- Any special test or tests required by your local agency or stipulated in your permit to operate.
  - Examples:
    - Enhanced Leak Detection (ELD)
    - .2GPH ATG Testing for Tank Probes in SW Tanks (Some Counties Require)
    - Vapor Recovery Spill Bucket Testing (Some Counties Require)
Testing Requirements AST’s

- Owner/Operator must maintain on site the most current copies of all testing, certifications, plans and permits. The minimum records required during annual AST inspections is the SPCC Plan spelling out the form of Integrity testing to be followed.

Remember…..One NOV from an Inspector could mean several return visits. You are now under a Microscope of continued compliance. Not to mention, the Penalty.
This certification must have been performed during the last 12 month period. (Note: This only has to be done if regulated by the UST division and/or 10% or more of the product is underground.).
Testing Requirements AST’s

- Aboveground Petroleum Storage Act (APSA)..Businesses that store 1,320 gallons or more of petroleum products (new or used) in aboveground tanks and/or containers of 55 gallons or more are required to develop and implement a Spill Prevention, Control, and Countermeasure (SPCC) Plan. The SPCC Plan is required to be certified by a professional engineer unless site qualifies for a Tier I or Tier II Facility.

  (Tier I- Facility has < 10,000 gallons total AST storage)
  (Tier II- Facility has >5,000 gallon individual AST tank)

- Spill Prevention, Control and Countermeasure (SPCC Required by EPA, Title 40, Part 112) must be in place specifying the type of Integrity Testing to be used ((STI)SP001 Recommended Standards).
  
  • APSA …SPCC Plan should include the following:
    1. Professional Engineer Certification if applicable
    2. Plan must be the sequence of 40 CFR 112.7
    3. Facility Diagram
    4. Spill Predictions
    5. Facility Drainage
Testing Requirements AST’s

- APSA …SPCC Plan should include the following continued:
  6. Facility Inspections/Integrity Testing
  7. Site Security
  8. Five Year Plan Review
  9. Management Approval
  10. Appropriate secondary containment or diversionary structures.
  11. Loading/unloading requirements and procedures involving tank trucks.
  13. Brittle fracture evaluations (Field Constructed Tanks)
  14. Bulk storage container compliance
  15. Transfer procedures and equipment (including piping)

Helpful Materials to use when preparing to complete an SPCC Plan:
- spcc_101_prod.pdf
- Ca APSA SPCC FAQ.pdf

See attached templates below for use when completing an SPCC plan:
- For all AST.form_tank_statement.pdf
- SPCC form_tier_I_template.pdf
- SPCC form_tier_II_template.pdf
Testing Requirements AST’s

- Facility Inspections/Integrity Testing
  - Monthly Inspections
    - Visual Inspection (Done by onsite personnel)
    - Monthly Inspection_checklists.pdf
  - Annual Inspections
    - Detailed Visual Inspection (Done by onsite personnel)
    - Annual Inspection_checklists.pdf
  - Formal External Inspections
    - Radio Graphic Testing
    - Ultrasonic Metal Thickness Testing
  - Formal Internal Inspections/Leak Test
    - Pressure Test (1.5 PSI to 3 PSI)
    - Hydrostatic Testing
    - Acoustic Emissions Testing (Fiberglass and Steel)
    - Other Non-Destructive Testing
# Testing Requirements AST’s

## Inspection Schedule

<table>
<thead>
<tr>
<th>Tank Category:</th>
<th>Type of Inspection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 1:</td>
<td>P - Periodic Owner's Inspection</td>
</tr>
<tr>
<td></td>
<td>E - Formal External Inspection</td>
</tr>
<tr>
<td></td>
<td>I - Formal Internal Inspection</td>
</tr>
<tr>
<td>Secondary Containment(Double Wall Tank)</td>
<td></td>
</tr>
<tr>
<td>Continuous Release Detection Method (CRDM)</td>
<td></td>
</tr>
</tbody>
</table>

| Category 2: | L - Leak Test |
| Secondary Containment(Earthen Dike to Prevent Catastrophic Leak) |

| Category 3: | |
| No Secondary Containment |
| No Prevention Barrier (RPB) |

## More Risk

<table>
<thead>
<tr>
<th>Size, Gallons</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shop 0-1100</td>
<td>P</td>
<td>P</td>
<td>P, E &amp; L (10)</td>
</tr>
<tr>
<td>1101-5,000</td>
<td>P</td>
<td>P, E &amp; L (10)</td>
<td>([P,E &amp; L (5), I (10)]) or ([P,E (5) and L (2)])</td>
</tr>
<tr>
<td>Built 5,001-30,000</td>
<td>P, E (20)</td>
<td>([P,E (10) and L (20)]) or ([P,E &amp; L (5) and L (10)])</td>
<td>([P,E &amp; L (5), I (10)]) or ([P,E (5) and L (1)])</td>
</tr>
<tr>
<td>Portable Containers</td>
<td>P</td>
<td>P</td>
<td>P</td>
</tr>
</tbody>
</table>
Testing Requirements AST’s

- Air Quality Standing Loss Control (SLC), Stage I and II testing for Gasoline tanks.
  - VR-301E (Existing AST-SLC)
    - PV Vent Valve Needed
    - High Performance White Paint (Listed in EO)
    - Protected Approved AST Vaulted Tanks (Listed in EO)
    - eo301e_final.pdf
  - VR-302E (New AST-SLC)
    - PV Vent Valve Needed
    - Protected Approved AST Vaulted Tanks (Listed in EO)
    - eo302e_final.pdf
  - CP-206 (Annually for GDF w/SLC)
    - Minimum Annual Test
      - Pressure Decay Test TP-206.3
      - PV Vent Valve Test TP-201.1E
      - Drop Tube Test TP-201.1D
      - Other Test as required by Permit to Operate (PTO)
      - cp-206.pdf
Every Presentation Needs A Happy Ending-Questions?