STI SP001 AST Record

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| OWNER INFORMATION | FACILITY INFORMATION | INSTALLER INFORMATION |
|  |  |  |
| Name | Name | Name |
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| Number and Street | Number and Street | Number and Street |
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| City, State, Zip Code | City, State, Zip Code | City, State, Zip Code |

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| TANK ID |
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| **SPECIFICATION:** |
|  |
| Design: UL  SWRI  Horizontal  Vertical  Rectangular   API  Other    Unknown |
| Manufacturer: Contents: Construction Date: Last Repair/Reconstruction Date: |
| Dimensions: Capacity: Last Change of Service Date: |
| Construction:  Bare Steel  Cathodically Protected (Check one: A.  Galvanic or B.  ImpressedCurrent) Date Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Coated Steel  Concrete  Plastic/Fiberglass  Other  Double-Bottom  Double-Wall  Lined Date Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Containment:  Earthen Dike  Steel Dike  Concrete  Synthetic Liner  Other |
| CRDM:  Date Installed: Type: |
| Release Prevention Barrier:  Date Installed: Type: |

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| Design: UL  SWRI  Horizontal  Vertical  Rectangular   API  Other    Unknown |
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| Containment:  Earthen Dike  Steel Dike  Concrete  Synthetic Liner  Other |
| CRDM:  Date Installed: Type: |
| Release Prevention Barrier:  Date Installed: Type: |

STI SP001 Monthly Inspection Checklist

**General Inspection Information:**

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| Inspection Date: Retain Until Date: (36 months from inspection date)    Prior Inspection Date: Inspector Name:  Tanks Inspected (ID #’s): |

**Inspection Guidance:**

* For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
* The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner’s inspector who is familiar with the site and can identify changes and developing problems.
* Upon discovery of water in the primary tank, secondary containment area, interstice, or spill container, remove promptly or take other corrective action. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
* (\*) designates an item in a non-conformance status. This indicates that action is required to address a problem.
* Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
* Retain the completed checklists for 36 months.
* **In the event of severe weather (snow, ice, wind storms) or maintenance (such as painting) that could affect the operation of critical components (normal and emergency vents, valves), an inspection of these components is required as soon as the equipment is safely accessible after the event.**

| Item | Task | Status | Comments |
| --- | --- | --- | --- |
| 1.0 Tank Containment | | | |
| 1.1 Containmentstructure | Check for water, debris, cracks or fire hazard | Yes\* No N/A |  |
| 1.2 Primary tank | Check for water | Yes\* No |  |
| 1.3 Containment drain valves | Operable and in a closed position | Yes No\* N/A |  |
| 1.4 Pathways and entry | Clear and gates/doors operable | Yes No\* N/A |  |
| 2.0 Leak Detection | | | | |
| 2.1 Tank | Visible signs of leakage | Yes\* No |  | |
| 2.2 Secondary Containment | Visible signs of leakage from tank into secondary containment | Yes\* No |  | |
| 2.3 Surrounding soil | Visible signs of leakage | Yes\* No N/A |  | |
| 2.4 Interstice | Visible signs of leakage | Yes\* No N/A |  | |
| 3.0 Tank Equipment | | | | |
| 3.1 Valves | a. Check for leaks. | Yes\* No N/A |  | |
| b. Tank drain valves must be kept locked. | Yes\* No N/A |
| 3.2 Spill containment boxes on fill pipe | a. Inspect for debris, residue, and water in the box and remove. | Yes\* No N/A |  | |
| b. Drain valves must be operable and closed. | Yes\* No N/A |
| 3.3 Liquid level equipment | a. Both visual and mechanical devices must be inspected for physical damage. | Yes No\* N/A |  | |
| b. Check that the device is easily readable | Yes No\* N/A |
| 3.4 Overfill equipment | a. If equipped with a "test" button, activate the audible horn or light to confirm operation. This could be battery powered. Replace the battery if needed | Yes No\* N/A |  | |
| b. If overfill valve is equipped with a mechanical test mechanism, actuate the mechanism to confirm operation. | Yes No\* N/A |  | |
| 3.5 Piping connections | Check for leaks, corrosion and damage | Yes\* No |  | |
| 4.0 Tank Attachments and Appurtenances | | | | |
| 4.1 Ladder and platform structure | Secure with no sign of severe corrosion or damage? | Yes No\* N/A |  | |
| 5.0 Other Conditions | | | | |
| 5.1 Are there other conditions that should be addressed for continued safe operation or that may affect the site spill prevention plan? | | Yes\* No |  | |

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| **Additional Comments:** |
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STI SP001 Annual Inspection Checklist

**General Inspection Information:**

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| Inspection Date: Retain Until Date: (36 months from inspection date)    Prior Inspection Date: Inspector Name:  Tanks Inspected (ID #’s): |

**Inspection Guidance:**

* For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
* The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner’s inspector who is familiar with the site and can identify changes and developing problems.
* Remove promptly upon discovery standing water or liquid in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
* In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility must regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
* (\*) designates an item in a non-conformance status. This indicates that action is required to address a problem.
* Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
* Retain the completed checklists for 36 months.
* Complete this checklist on an annual basis supplemental to the owner monthly-performed inspection checklists.
* **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

| Item | Task | Status | | Comments |
| --- | --- | --- | --- | --- |
| 1.0 Tank Containment | | | | |
| 1.1 Containmentstructure | Check for:Holes or cracks in containment wall or floorWashoutLiner degradationCorrosionLeakagePaint failureTank settling | Yes\* No N/A | |  |
| 2.0 Tank Foundation and Supports | | | | |
| 2.1 Foundation | Settlement or foundation washout? | Yes\* No | |  |
| 2.2 Concrete pad or ring wall | Cracking or spalling? | Yes\* No N/A | |  |
| 2.3 Supports | Check for corrosion, paint failure, etc. | Yes\* No N/A | |  |
| 2.4 Water drainage | Water drains away from tank? | Yes No\* N/A | |  |
| 2.5 Tank grounding | Strap secured and in good condition? | Yes No\* N/A | |  |
| 3.0 Cathodic Protection | | | | |
| 3.1 Gavlvanic cathodic protection system | Confirm system is functional, includes the wire connections for galvanic systems | Yes No\* N/A | |  |
| 3.2 Impressed current system | a. Inspect the operational components (power switch, meters, and alarms). | | Yes No\* N/A |  |
| b. Record hour meter, ammeter and voltmeter readings. | | Yes No\* N/A |  |
| 4.0 Tank Shell, Heads, Roof | | | | |
| 4.1 Coating | Check for coating failure | | Yes\* No |  | |
| 4.2 Steel condition | Check for:DentsBucklingBulgingCorrosionCracking | | Yes\* No |  | |
| 4.3 Roof slope | Check for low points and standing water | | Yes\* No N/A |  | |
| 5.0 Tank Equipment | | | | | |
| 5.1 Vents | Verify that components are moving freely and vent passageways are not obstructed for:Emergency vent coversPressure/vacuum vent poppetsOther moving vent components | | Yes\* No |  | |
| 5.2 Valves | Check the condition of all valves for leaks, corrosion and damage. | | Yes\* No |  | |
| 5.2.1 Anti-siphon, check and gate valves | Cycle the valve open and closed and check for proper operation. | | Yes No\* N/A |  | |
| 5.2.2 Pressure regulator valve | Check for proper operation. (Note that there may be small, 1/4 inch drain plugs in the bottom of the valve that are not visible by looking from above only) | | Yes No\* N/A |  | |
| 5.2.3 Expansion relief valve | Check that the valve is in the proper orientation. (Note that fuel must be discharged back to the tank via a separate pipe or tubing.) | | Yes No\* N/A |  | |
| 5.2.4 Solenoid valves | Cycle power to valve to check operation. (Electrical solenoids can be verified by listening to the plunger opening and closing. If no audible confirmation, the valve should be inspected for the presence and operation of the plunger.) | | Yes No\* N/A |  | |
| 5.2.5 Fire and shear valves | a. Manually cycle the valve to ensure components are moving freely and that the valve handle or lever has clearance to allow valve to close completely. | | Yes No\* N/A |  | |
| b. Valves must not be wired in open position. | | Yes No\* N/A |  | |
| c. Make sure fusible element is in place and correctly positioned. | | Yes No\* N/A |  | |
| d. Be sure test ports are sealed with plug after testing is complete and no temporary test fixture or component remains connected to valve. | | Yes No\* N/A |  | |
| 5.3 Interstitial leak detection equipment | Check condition of equipment, including:The window is clean and clear in sight leak gauges.The wire connections of electronic gauges for tightness and corrosionActivate the test button, if applicable. | | Yes No\* N/A |  | |
| 5.4 Spill containment boxes on fill pipe | a. If corrosion, damage, or wear has compromised the ability of the unit to perform spill containment functions, replace the unit. | | Yes\* No N/A |  | |
| b. Inspect the connections to the AST for tightness, as well as the bolts,nuts, washers forcondition and replace if necessary. | | Yes\* No N/A |  | |
| c. Drain valves must be operable and closed | | Yes\* No N/A |  | |
| 5.5 Strainer | a. Check that the strainer is clean and in good condition. | | Yes No\* N/A |  | |
| 5.5 Strainer | b. Access strainer basket and check cap and gasket seal as well as bolts. | | Yes No\* N/A |  | |
| 5.6 Filter | a. Check that the filter is in good condition and is within the manufacturer’s expected service life. Replace, if necessary. | | Yes No\* N/A |  | |
| b. Check for leaks and decreased fuel flow | | Yes No\* N/A |
| 5.7 Flame arrestors | Follow manufacturer’s instructions. Check for corrosion and blockage of air passages. | | Yes\* No N/A |  | |
| 5.8 Leak detector for submersible pump systems | Test according to manufacturer's instructions and authority having jurisdiction (AHJ). Verify leak detectors are suited and properly installed for aboveground use. | | Yes No\* N/A |  | |
| 5.9 Liquid level equipment | a. Has equipment been tested to ensure proper operation? | | Yes No\* N/A |  | |
| b. Does equipment operate as required? | | Yes No\* N/A |
| c. Follow manufacturer’s instructions | | Yes No\* N/A |
| 5.10 Overfill equipment | a. Follow manufacturer’s instructions and regulatory requirements for inspection and functionality verification. | | Yes No\* N/A |  | |
| b. Confirm device is suited for above ground use by the manufacturer | | Yes No\* N/A |
| 6.0 Insulated Tanks | | | | | |
| 6.1 Insulation | Check condition of insulation for: Missing sectionsAreas of moistureMoldDamage | | Yes\* No N/A |  | |
| 6.2 Insulation cover or jacket | Check for damage that will allow water intrusion | | Yes\* No N/A |  | |
| **7.0 Miscellaneous** | | | | | |
| 7.1 Electrical wiring and boxes | Are they in good condition? | | Yes No\* N/A |  | |
| 7.2 Labels and tags | Ensure that all labels and tags are intact and readable. | | Yes No\* N/A |  | |

**Additional Comments:**

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STI SP001 Portable Container Monthly Inspection Checklist

**General Inspection Information:**

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| Inspection Date: Retain Until Date: (36 months from inspection date)    Prior Inspection Date: Inspector Name:  Containers Inspected (ID #’s): |

**Inspection Guidance:**

* For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
* The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner’s inspector who is familiar with the site and can identify changes and developing problems.
* (\*) designates an item in a non-conformance status. This indicates that action is required to address a problem.
* Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
* Retain the completed checklists for 36 months.

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| --- | --- | --- | --- | --- |
| Item | **Area:** | **Area:** | **Area:** | **Area:** |
| 1.0 AST Containment/Storage Area | | | | |
| 1.1 ASTs within designated storage area? | Yes No\* | Yes No\* | Yes No\* | Yes No\* |
| 1.2 Debris, spills, or other fire hazards in containment or storage area? | Yes\* No | Yes\* No | Yes\* No | Yes\* No |
| 1.3 Water in outdoor secondary containment? | Yes\* No | Yes\* No | Yes\* No | Yes\* No |
| 1.4 Drain valves operable and in a closed position? | Yes No\* | Yes\* No | Yes\* No | Yes\* No |
| 1.5 Egress pathways clear and gates/doors operable? | Yes No\* | Yes\* No | Yes\* No | Yes\* No |

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| Item | **Area:** | **Area:** | **Area:** | **Area:** |
| 2.0 Leak Detection | | | | |
| 2.1 Visible signs of leakage around the container or storage area? | Yes\* No | Yes\* No | Yes\* No | Yes\* No |
| 3.0 Container | | | | |
| 3.0 Noticeable container distortions, buckling, denting or bulging? | Yes\* No | Yes\* No | Yes\* No | Yes\* No |

**Comments:**

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