FORM 2: ANNUAL STORAGE TANK SYSTEM INSPECTION CHECKLIST

Instructions: Complete FORM 2, one per storage tank system. (*) designates an item in non-conformance/unsatisfactory status; provide action in comment section to resolve problem and notify Environmental Protection Specialist if any significant deficiencies are identified.
Regulatory Driver: 40 CFR 112
Frequency: Annually

Inspection Date:_____ Inspector Name:_____ Tank Number:_____ Location:_____

STI SP001 Annual Inspection Checklist

General Inspection Information:

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 Containment structure	Check for: • Holes or cracks in containment wall or floor • Washout • Liner degradation • Corrosion • Leakage • Paint failure • Tank 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	

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Item	Task	Status	Comments
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: • Dents • Buckling • Bulging • Corrosion • Cracking	☐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 covers • Pressure/vacuum vent poppets • Other moving vent components	☐Yes ☐No* ☐N/A	
5.2 Valves	Check the condition of all valves for leaks, corrosion and damage.	☐Yes ☐No* ☐N/A	
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	☐Yes ☐No* ☐N/A	

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	valve should be inspected for the presence and operation of the plunger.)		
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 corrosion • Activate 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 for condition 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	

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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 sections • Areas of moisture • Mold • Damage	☐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:

Inspector Signature: _____