

STI SP001 Annual Inspection Checklist

General Inspection Information:

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.
- Inspect the AST shell and associated piping, valves, and pumps including inspection of the coating for Paint Failure.
- Inspect:
 1. Earthen containment structures including examination for holes, washout, and cracking in addition to liner degradation and tank settling.
 2. Concrete containment structures and tank foundations/supports including examination for holes, washout, settling, paint failure, in addition to examination for corrosion and leakage.
 3. Steel containment structures and tank foundations/supports including examination for washout, settling, cracking, and for paint failure, in addition to examination for corrosion and leakage.
- Inspection of cathodic protection system, if applicable, includes the wire connections for galvanic systems and visual inspection of the operational components (power switch, meters, and alarms) of impressed current systems.
- 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	Status	Comments
1.0 Tank Containment		
1.1 Containment structure in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
1.2 Drainage pipes/valves fit for continued service	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> N/A	
2.0 Tank Foundation and Supports		
2.1 Evidence of tank settlement or foundation washout?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
2.2 Cracking or spalling of concrete pad or ring wall?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
2.3 Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
2.4 Water able to drain away from tank?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
2.5 Grounding strap secured and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
3.0 Cathodic Protection		
3.1 CP system functional?	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> n/a	
3.2 Rectifier Reading:		
4.0 Tank External Coating		
4.1 Evidence of paint failure?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
5.0 Tank Shell/Heads		
5.1 Noticeable shell/head distortions, buckling, denting or bulging?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
5.2 Evidence of shell/head corrosion or cracking?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
6.0 Tank Manways, Piping and Equipment within Secondary Containment		
6.1 Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
7.0 Tank Roof		
7.1 Standing water on roof?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
7.2 Evidence of coating cracking, crazing, peeling, blistering?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
7.3 Holes in roof?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	

Item	Status	Comments
8.0 Venting		
8.1 Vents free of obstructions?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
8.2 Emergency vent operable? Lift as required?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
9.0 Insulated Tanks		
9.1 Insulation missing?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
9.2 Are there noticable areas of moisture on the insulation?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
9.3 Mold on insulation?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
9.4 Insulation exhibiting damage?	<input type="checkbox"/> Yes* <input type="checkbox"/> No	
9.5 Is the insulation sufficiently protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
10.0 Level and Overfill Prevention Instrumentation of Shop-Fabricated Tanks		
10.1 Has the tank liquid level sensing device been tested to ensure proper operation?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
10.2 Does the tank liquid level sensing device operate as required?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	
10.3 Are overfill prevention devices in proper working condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> N/A	
11.0 Electrical Equipment		
11.1 Are tank grounding lines in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> N/A	
11.2 Is electrical wiring for control boxes/lights in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input type="checkbox"/> N/A	

Additional Comments:
