Above Ground Storage Tank Inspection Checklist

Per API 653 / STI SP001 and EPA SPCC Requirements

Date: _____

Inspector: _____

Facility Name: _____

Tank ID / Number: _____

Product Stored: _____

Tank Capacity: _____

Applicable Standard: STI SP001 / API 653

Inspection Type: Periodic / Formal External / Internal

Part 1: Tank Shell, Roof & Structure

Inspection Item	What to Check	OK	Fail	N/A
Shell condition	No visible corrosion, pitting, dents, bulges, or cracks. Coating intact. No streaks/staining indicating leakage.			
Roof condition	No corrosion, holes, sagging, ponding. Roof drains functioning. Floating roof seals intact (if applicable).			
Welds and seams	Visible weld seams free of cracks, corrosion, leakage. Nozzle welds intact. Repair welds documented.			
Tank bottom (external)	No product leakage at shell-to-bottom junction. No product staining around base. Leak detection functioning.			
Venting	Pressure/vacuum vents functioning and unobstructed. Flame arrestors clean. Emergency vents operational.			

Part 2: Foundation, Containment & Piping

Inspection Item	What to Check	OK	Fail	N/A
Foundation	Ring wall/pad free of cracks, spalling, settlement. Grading slopes away. No vegetation against tank.			
Secondary containment	Dike/berm/wall structurally sound. Capacity per SPCC (largest tank volume + freeboard). Liner intact.			
Containment drainage	Drain valves closed and locked. No unauthorized discharge. Rainwater inspected before release.			
Piping and connections	All piping, valves, flanges leak-free. Pipe supports in good condition. Valve positions correct.			
Gauging/overfill prevention	Level gauge accurate. High-level alarm tested. Overfill prevention device functioning.			

Part 3: Safety, Labeling & Documentation

Inspection Item	What to Check	OK	Fail	N/A
Labeling/identification	Tank ID visible. Contents identified. NFPA 704 diamond posted. Capacity marked. Nameplate legible.			
Fire protection	Fire extinguisher inspected/accessible. Foam system operational (if installed). No Smoking signs posted.			
Spill response	Spill kit stocked near tank. Response procedures posted. SPCC plan current and accessible.			
Security	Area secured. Fencing/gates in good condition. Locks functional. Lighting adequate.			
Inspection records	Monthly records current. Formal external report available. Internal/leak test report available (if applicable).			

Your SPCC plan must specify the inspection standard (STI SP001 or API 653) for each tank and document inspection frequency, procedures, and personnel qualifications. Retain inspection records for the life of the tank.

Deficiencies Found

Item #	Deficiency Description	Priority	Corrective Action

Inspector: _____ Date: _____ Signature: _____

Facility Manager: _____ Date: _____ Signature: _____