

Environmental Standard Operating Procedure (ESOP)	
Aboveground Storage Tanks (AST)	
Environmental Affairs (EA): Resource Conservation and Recovery Act (RCRA) D/I Manager (760) 830-8361	Revised: 1 October 2024

Subject: ABOVEGROUND STORAGE TANKS

References: (a) Integrated Contingency and Operations Plan
(b) Code of Federal Regulations, Title 40
(c) Aboveground Storage Tank (AST) for Hazardous Waste ESOP

1. Purpose. This document provides environmental protection guidelines for operation and management of ASTs.
2. Application. This guidance applies to personnel working with or managing ASTs to include bulk storage aboard the Marine Air Ground Task Force Training Command (MAGTFTC), Marine Corps Air Ground Combat Center (MCAGCC) Twentynine Palms. For further references to MAGTFTC, MCAGCC in this document, the term "installation" will be used. Facilities should refer to the AST for Hazardous Waste ESOP (reference [c]) for additional monitoring requirements for hazardous waste ASTs.
3. Procedures. Proper management of ASTs reduces risk to human health and the environment. ASTs aboard the installation must be effectively managed to confirm compliance with the applicable federal, state, and local regulations. Improper management of ASTs can cause adverse regulatory action, which may result in fines, penalties, and other enforcement actions that may impact the installation mission.
4. Operational Controls. Facilities aboard the installation with ASTs and bulk storage must monitor the tank operation and security before, during, and after filling or dispensing operations. Facilities will conduct weekly visual inspections of AST systems to include leak detection, containment systems, and the filling or dispensing apparatus by using the attached inspection checklists. ASTs and bulk storage that use underground piping must be equipped with underground piping automatic leak detection systems, which must be monitored daily.

The following controls apply:

- a. Confirm AST is in good condition with no evidence of spills, leaks, or unauthorized dumping.
- b. Confirm coating of AST shell is in good condition with no signs of bubbling, cracking, or corrosion.
- c. Confirm fittings are in good condition with no signs of damage cracking, corrosion, or staining.
- d. Confirm tank supports and straps are in good condition (if applicable).

Subject: ABOVEGROUND STORAGE TANKS

- e. Check tank foundation is in good condition with no signs of erosion, settling, or severe cracking (if applicable).
 - f. Confirm fill caps and vent caps are in place and function properly. Per the National Fire Protection Act, use of plastic and polyvinyl chloride materials for fill and vent caps is prohibited.
 - g. Confirm use of correct fill ports during filling. Do not fill or place any liquids in emergency vent and interstitial space.
 - h. Properly mark the AST with signage describing the contents and associated hazards. Confirm signage is legible and not faded.
 - i. Confirm piping and piping connections are in good condition with no signs of leaks, corrosion, and damage.
 - j. Confirm pumps and valves are in good condition with no signs of leaks or staining around equipment (if applicable).
 - k. Confirm level gauge is functioning properly and level is confirmed with stick measurement into fill port.
 - l. Confirm interstitial leak detection gauge is serviceable and reads as nondetect.
 - m. Verify within the secondary containment that the drainage valve(s) is present and is in a closed and locked position (if applicable).
 - n. Confirm secondary containment is in good condition with no signs of severe cracks (if applicable).
 - o. Check secondary containment for visible signs of leakage from tank into secondary containment and that the area is free of any water, oils/fuel, sand, trash, or vegetation (if applicable).
 - p. Confirm to post "No Smoking" signs around AST.
 - q. Confirm that spill kits and fire extinguishers are available in case of an emergency.
 - r. If a cabinet dispenser is located at the AST, remove the skirt and visually inspect the inside of the dispenser weekly for leaks.
 - s. Note any abnormal conditions found during weekly inspections and their corrective actions.
 - t. Post the Permit to Operate on or near the AST; this must be available for inspection (if applicable).
 - u. If there are specific situations or other concerns not addressed by this procedure, contact EA RCRA D/I Manager Office via phone at (760) 830-8361.
5. Documentation and Record Keeping. The following records must be maintained for 3 years:
- a. Safety data sheets for product(s) stored in AST.

Subject: ABOVEGROUND STORAGE TANKS

- b. Personnel training records.
 - c. Weekly inspection logs.
6. Training. All affected personnel must be trained in this document and the following:
- a. General Environmental Awareness training
 - b. Globally Harmonized System training
7. Emergency Preparedness and Response Procedures. Refer to the spill response procedures listed in the Abatement ESOP and the Integrated Contingency and Operations Plan.
8. Inspection and Corrective Action. The Environmental Compliance Coordinator (ECC) will confirm unit adherence to this ESOP. The ECC will confirm that unit personnel are trained in this ESOP and maintain appropriate documentation in accordance with this ESOP.

Subject: ABOVEGROUND STORAGE TANKS

AST - ECC/Unit Inspection Checklist	
Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Is the aboveground storage tank (AST) in good condition with no evidence of spills, leaks, or unauthorized dumping?			
2. Is coating of AST shell in good condition with no signs of bubbling, cracking, or corrosion?			
3. Are fittings in good condition with no signs of damage cracking, corrosion, or staining?			
4. Are tank supports and straps in good condition (if applicable)?			
5. Is the tank foundation in good condition with no signs of erosion, settling, or severe cracking (if applicable)?			
6. Are fill caps and vent caps in place and functioning properly?			
7. Is the AST(s) properly marked with signage that is legible and not faded describing the contents and associated hazards?			
8. Is the piping, piping joints, and flanges in good condition with no signs of leaks or corrosion?			
9. Are pumps and valves in good condition with no signs of leaks or staining around equipment (if applicable)?			
10. Is the level gauge functioning properly and level being confirmed with stick measurement?			
11. Is the interstitial leak detection gauge serviceable and reads as nondetect?			
12. Is the secondary containment drainage valve(s) present and in a closed and locked position (if applicable)?			
13. Is the secondary containment in good condition with no signs of severe cracks (if applicable)?			
14. Is the secondary containment area free of any water, oils/fuel, sand, trash or vegetation (if applicable)?			
15. Are "No Smoking" signs posted around AST?			
16. Have any abnormal conditions been found during weekly inspections and, if so, have they been corrected and documented?			
17. Is the Permit to Operate on or near the AST and available for inspection (if applicable)?			

Subject: ABOVEGROUND STORAGE TANKS

Inspection Items	Yes	No	Comments
18. Are inspection and training records maintained for at least 3 years and available for inspection?			

Additional Comments:

Corrective Action Taken:

Unit Inspector:

Name: _____
Signature: _____
Date: _____