

Environmental Management System

**Information about Underground /
Aboveground Storages for Liquids**

Summary: This is information about storage of liquids in underground or aboveground storage tanks, drums, buckets or barrels.

Applicability: To all Soldiers and personnel working on behalf of the USAG Baumholder

Proponent: The proponent of this procedure is the Directorate of Public Works, Environmental Division, Unit #23746, Box #16, APO AE 09034, DSN 485-6621.

Review: This document shall be reviewed on an annual basis. Changes or revisions shall comply with this procedure.

Forms: No forms required.

Suggested improvements: Send comments and suggested improvements on DA Form 2028 to the proponents listed above.

Summary of change:

This document was set up completely new in October 2010

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1. Purpose

This flyer gives information about underground and aboveground storage tanks, drums, barrels, etc.

2. Definitions

Underground Storage Tank (UST)

UST means any one or combination of tanks (including underground pipes connected thereto) that is used to contain an accumulation of regulated substances and the volume of which (including the volume of the underground pipes connected thereto) is ten percent or more beneath the surface of the ground.

Aboveground Storage Tank (AST)

The entire outer surface area of the tank, excluding the bottom, is easily visible. The tank may be located within a vault as long as the vault is not backfilled and can be entered for tank external inspections.

Other container (ASF)

Rigid, transportable box for liquids with a capacity of 450 liters to 1000 liters. These boxes are made for mechanical handling.

Drum

A metal container in the shape of a cylinder used to store liquids. The common capacity of drums used in the USAG Baumholder is 5 or 55 gallons.

Storage tank system

Storage tank systems include the tank(s), all connected piping, any ancillary equipment, and the containment system.

3. Procedures:

3.1. Storage

Generators shall not store used oil, brake fluid or antifreeze in units other than tanks, ASFs or drums.

ASFs/drums must be labeled or marked clearly with the words describing the content (“Used oil”, “Used antifreeze” or “Used brake fluid”).

Clearly label sinks which liquid is allowed to be disposed there.

Do not mix different waste streams. In waste oil storages it is allowed to mix waste oil, hydraulic oil and transmission oil.

In storages for antifreeze or brake fluid no other liquids are allowed.

Check your USTs, ASTs, ASFs and storage drums daily for leaks and spills. Document your inspections and keep these documents on file.

3.2. UST

Do not flush absorbent material down the sink of your UST. This material will clog the pipes. When there is an alarm at the UST surveillance system call the ED (DSN: 485-6858) and do not continue to drain liquid in the tank.

When the sink is clogged make an emergency work order under DSN: 115.

Check the surveillance system every day for functionality and document your inspection. Keep your documentation on file.

3.3. AST

The fill level of an AST must not exceed three quarters of the total AST volume. An overfilled AST is not allowed for transport. Check ASTs daily for leaks and fill level. Document your inspection and keep the documentation on file.

ASTs are double walled. Therefore these tanks don't need to be placed on a secondary containment.

3.4. ASF

The fill level of an ASF must not exceed three quarters of the total ASF volume. An overfilled ASF is not allowed for transport.

ASFs used to store Hazardous Waste (HW) are mostly constructed with secondary containment. There is no need to place double-walled ASFs on secondary containment. Some ASF are constructed single-walled and need to be placed on secondary containment. If not sure call the ED.

3.5. Drums

Due to the capacity it is not allowed to use 5 gallons drums as storage for HW. Use 55 gallon drums to store hazardous liquids. Like in tanks, do not mix different waste streams in drums. Drums have no secondary containment and need to be placed on secondary containment.

4. Disposal information

If the fill level of a storage tank/container is at about three quarters of the total tank/container volume call the Hazardous Waste Storage Facility to have the tank/container emptied.