Vehicle Fueling Station. FAC 1231

CATCODE: 123335
OPR: AF/A4LE
OCR: AFCEC/COS, AFPET/PTOT

1.1. **Description.** These facilities (also called Base Service Stations) are provided for fueling government owned vehicles and equipment. The facilities and equipment are similar to commercial service stations with separate storage and dispensing facilities for each type of fuel issued.

1.2. **Requirements Determination.**

1.2.1. **Base Civil Engineer (BCE) Facility.** At bases where the Base Civil Engineer compound is more than one mile from the base service station, a separate Civil Engineer fueling station is authorized.

1.2.2. **Aircraft Support Equipment (Aerospace Ground Equipment, [AGE]).** Remote fueling stations for AGE vehicles may be provided where it is not practical to drive such equipment to the vehicle fueling station (base service station). Normally this is limited to locations having more than ten pieces of equipment when the distance to the motor pool area is over one mile.

1.2.3. For programming purposes operating tanks are included as part of the facility they serve. **CATCODE 124135** is used for inventory purposes for these tanks.

1.3. **Scope Determination.** At stations where high volumes of fuel issues require constant replenishment, provide a minimum of two tanks per grade of product, and ensure the tanks are 45,000 liters (12,000 gallons) or larger capacity to accommodate commercial tank truck deliveries. Provide one fuel fill stand for each grade of product. For facilities with fewer than 100 assigned vehicles, provide a minimum of one 38,000 liter (10,000 gallon) tank and one commercial type dispensing pump and meter per tank. Above ground tanks are preferred if clearance criteria is available.

1.3.1. **BCE Facility.** Provide one commercial-type dispensing pump and meter for each tank. Provide a minimum of one 19,000 liter (5,000 gallon) storage tank for each type of fuel issued.

1.3.2. **AGE Facility.** A single storage tank with a capacity of 3,800 liters (1,000 gallons) per each ten pieces of AGE or an underground tank up to 45,000 liters (12,000 gallons) may be provided for each type of fuel issued. Provide a commercial type dispensing pump and meter for each tank.

1.4. **Dimensions.** At locations where base bulk ground fuels stocks are maintained at the vehicle fueling station, provide a dispensing pump, meter, and hose or loading arm to load ground fuel delivery vehicles. See paragraph 1.3 and UFC 3-460-01.

1.5. **Design Considerations.**

1.5.1. Operating tanks for vehicle fueling stations should be above ground where possible. If underground tanks are required to meet distance criteria, ensure they are double wall horizontal cylindrical type tanks of steel or fiberglass and equipped with a leak monitoring and detection system. Size tanks in accordance with paragraph 1.3.

1.5.2. Ensure all vehicle fueling stations comply with local, state, and federal requirements in respect to fuel vapor emissions, as required by AFI 32-7040 and other guidance as defined in AFMAN 32-1084 Overview, paragraph 1.3.1 Mandatory Requirements and paragraph 1.8.3 Exceptions. At locations where no fuel vapor emission requirement exists and a new system (or modification to an existing system) is being installed, include necessary piping for a vapor recovery system in the installation (or modification). Design vehicle service stations to accommodate the Automated Fuels Service Station hardware. A consolidated station for vehicles and support equipment, such as AGE, should be considered where practical.

1.5.3. Provide secondary containment with holding capacity equal to the largest single compartment of the tank trucks to be loaded at fueling stations.

1.5.4. Compressed natural gas service stations are generally skid mounted equipment versus real property. For criteria on connection to base natural gas systems contact AFCEC/COS.

1.5.5. Operating fuel storage tanks are provided wherever dispensing facilities are remote from bulk storage tanks. These tanks provide a means of storing fuel immediately prior to issue into aircraft or vehicles. Construct operating storage tanks above ground at CONUS locations. In all cases, above-ground tanks are preferred wherever airfield clearance criteria permit and where survivability issues are not a concern.