

## **Refueling Vehicle Shop. FAC: 2141**

CATCODE: 214467

OPR: AF/A4LE

OCR: AFCEC/COS

1.1. **Description.** The refueling shop provides space and facilities for lubrication, inspection, general repair, overhaul, and replacement of major assemblies, testing, cleaning, and minor parts fabrication. This facility is used to perform maintenance on and store refueling vehicles. These vehicles are used for fuel transport, such as JP-8 and diesel fuel.

1.2. **Requirements Determination.** Refueling maintenance shops maintain all fuel servicing vehicles assigned to a base. Obtain waivers to these criteria from AFCEC/COS or AF/SEF. AFOSH Std 91-20 prohibits servicing or repairing fuel servicing tank units and hydrant hose trucks in maintenance shops with other vehicles. Because of the number of fueling vehicles and fueling carts normally assigned to an Air Force base, regulations require a separately sited maintenance and repair facility.

1.3. **Scope Determination.** Refer to **CATCODE 214425** Vehicle Maintenance Shop, Table 1.6 for space requirements. Make allowances for sufficient maintenance space around the vehicle; recommend 2.4 m (8 ft) minimum clearance. The R-11 refueling vehicle is 11.6 m (38 ft) long, 2.7 m (8 ft 10 in) wide, and 2.6 m (8 ft 6 in) high. Allow adequate space for a driveway and the R-11's turning radius of 15.2 m (50 ft).

1.4. **Dimensions.** See Scope Determination above. Additionally, the facility should have the following:

1.4.1. Entry/waiting room with customer seating;

1.4.2. Supervisor's office with easy access to the maintenance area (see Facility Class 6 of this for approved office standards);

1.4.3. Separate men's and women's restroom facilities. Each should have appropriate lockers and showers for personnel assigned to the facility. Provide separate unisex public restroom that is accessible from entry/waiting area;

1.4.4. Maintenance bays with sufficient room to accommodate the largest refueling vehicles;

1.4.5. Area for storage of tool boxes and shared tools; and

1.4.6. Space for jack/floor tools located adjacent to service bays with room for jack stands, lifts, hoists, etc.

1.5. **Design Considerations.**

1.5.1. Give special consideration to forced ventilation and exhaust extraction systems.

1.5.2. Static grounding stations are necessary for refueling equipment within the facility.

1.5.3. Provide explosion-proof electrical outlets, light fixtures, and other electrical features within the facility.

- 1.5.4. Provide automatic fire detection and suppression.
- 1.5.5. This facility should be remotely located due to its potential fire hazard.
- 1.5.6. Additionally, the facility and surrounding parking area should be designed to provide for secondary containment in an event of a fuel spill.
- 1.5.7. Provide above-ground vehicle hoists or crane monorail system