

## **Vehicle Operations Heated Parking. FAC: 4415**

CATCODE: 214426

OPR: AF/A4LE

OCR: AFCEC/COS

1.1. **Description.** This facility provides a covered and heated environment for certain assigned vehicles. The space includes vehicle parking stalls, vehicle maneuvering lanes, mechanical room, and other necessary management support functions.

1.2. **Requirements Determination.** The space requirement is the minimum space required to efficiently accommodate the selected vehicles. Heated parking buildings are needed for motorized aircraft and fuel servicing vehicles at installations where winters are severe. Severe winters are those with 30 or more days per year of  $-12^{\circ}\text{C}$  ( $10^{\circ}\text{F}$ ) or lower or with an average January temperature of  $-7^{\circ}\text{C}$  ( $20^{\circ}\text{F}$ ) or lower as determined from two 10-year (or longer) weather databases.

### **1.3. Scope Determination.**

1.3.1. To determine the required space, develop a parking plan that reflects typical vehicle dimensions and turning radii. For planning purposes, determine the total vehicle equivalents for the vehicles selected and multiply by  $18.6\text{ m}^2$  ( $200\text{ ft}^2$ ). This is the same as multiplying each vehicle's length by its width and multiplying by two. If the parking plan has a center aisle, multiply each vehicle equivalent by  $14\text{ m}^2$  ( $150\text{ ft}^2$ ). For a shed-type structure with no interior access lanes, use  $9.3\text{ m}^2$  ( $100\text{ ft}^2$ ) for 1.0 vehicle equivalent. Other facility category codes such as Base Engineer Pavement and Grounds Facility (**CATCODE 219943**), Ambulance Shelter (**CATCODE 510264**), and Fire Station (**CATCODE 730142**) recognize the requirement to provide covered parking space for special purpose vehicles under the respective category code.

1.3.2. The number of vehicles that require parking in heated buildings varies with the flying mission and type of operation. The maximum allowance is 40 percent of the fuel servicing vehicles for motorized aircraft assigned to the installation. Not more than four large refueling units (such as the R-9 or R-11 type) should be parked in a single structure.

1.3.3. Maintain 2.4 m (8 ft) separation between parked vehicles and 30 m (100 ft) separation between this building and nearby structures.

1.4. **Dimensions.** See paragraph 1.3. above.

1.5. **Design Considerations.** An installation that warrants more than four units may define a single structure as a two-hour rated fire wall separating every four bays. The wall should have few penetrations, and these should have two hour fire ratings. These facilities may have special criteria for mechanical, electrical, fire protection, ventilation, and water pollution control systems to reduce the hazards associated with fuel operations.