

Shop, Tactical Missile, Glide Weapon Maintenance. FAC: 2121

CATCODE: 212213

OPR: AF/A4LW

OCR: ACC/A4W

1.1. **Description.** This facility accommodates missile and glide munitions assembly and disassembly inspection, testing, and repair. This facility consists of individual drive-through work bays, a test cell room for electrical and resistance checks of rocket motors, and an administrative area for office space, ready and training rooms, a tool and test equipment support room, supply and equipment storage, and a latrine.

1.2. **Requirements Determination.** This facility is necessary to perform organizational maintenance on missile weapon systems. The following documents should be utilized to determine the scope of the facility: Unit Committed Munitions List (UCML)—A list that identifies munitions required by a unit to support war plans (primary munitions) and contingency operations (support munitions); AFI 11-212, *Munitions Requirements for Aircrew Training*; the Air Force Standard for Non-Expendable Air Munitions Training Authorizations; test plans; and beddown plans.

1.3. **Scope Determination.** The shop has a minimum of three work bays, 9.1m x 15.2 m (30 ft x 50 ft), depending on mission requirements. For example, one bay for air-to-air missile systems, one for air-to-ground missiles, and one for glide weapons systems. Compatibility between the various missile and glide weapon systems has to be considered when determining the total number of required work bays. All bay doors are 3 m (10 ft) high and 5 m (17 ft) wide. An adjoining administrative area consists of approximately 232 m² (2,500 ft²). The proposed Unit Manning Document (UMD) and guidance in this Manual should be used to determine specific personnel administrative space. See Facility Class 6 for additional guidance on administrative space standards.

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

1.5. **Design Considerations.**

1.5.1. Include a 1,810 kg (4,000 lb) transverse-mounted hoist in each bay. AFI 31-101 requires high security hasps or Internal Locking Devices (ILD) on all bay doors with the intrusion system.

1.5.2. Ensure shops requiring a drive-through paint spray booth comply with environmental standards.

1.5.3. Consult AFMAN 91-201 for Q-D safety criteria controls design and siting of the shop.

1.5.4. Facility is equipped with lightning protection and electrical grounding system according to DoD 6055.9-Std and AFMAN 91-201.

1.5.5. Refer to AFMAN 91-201 for additional guidance on personnel and propagation protection between operating bays. Provide SDWs between operating bays to support concurrent operations as per the criteria in AFMAN 91-201. Provide separate facilities if SDW criteria in AFMAN 91-201 cannot be met.

1.5.6. Low pressure (0 to 150 psig) and high pressure (0 to 3,500 psig) air is needed. 115 VAC, 60 Hz, single-phase and 115 VAC 400 Hz, 3-phase power is needed.

1.5.7. Environmental controls for humidity and temperature are necessary to assure proper protection for weapon systems and test equipment. HVAC for office, training, and bays is required.