

Surveillance and Inspection Shop. FAC: 2153

CATCODE: 215582

OPR: AF/A4LW

OCR: ACC/A4W

1.1. **Description.** This facility accommodates the initial assembly, inspection, test bench, and minor maintenance of various conventional munitions and their respective components. The maintenance facility consists of drive-through work bays, office space, a tool room, a ready room, and latrines.

1.2. **Requirements Determination.** The following documents should be utilized to determine the scope of the facility: The UCML; AFI 11-212; the Air Force Standard for Non-Expendable Air Munitions Training Authorizations; test plans; beddown plans; and AFCAT 21-209, Volume 1, *Ground Munitions*.

1.3. **Scope Determination.** The shop has a minimum of two work bays, approximately 9.1 m x 15.2 m (30 ft x 50 ft), depending on mission requirements. Compatibility between the various munitions has to be considered when determining the total number of required work bays. An adjoining administrative area consists of approximately 137 m² (1,500 ft²). The proposed UMD and guidance in this Manual should be used to determine specific personnel administrative space. (See Facility Class 6 of this Manual for additional guidance on administrative space requirements.)

1.4. **Dimensions.** See **paragraph 1.3.** above and 1.5. below.

1.5. Design Considerations.

1.5.1. Cranes or hoists, along with specific safety devices, may be required depending on specific munitions requirements.

1.5.2. Provide high security hasps or ILD on all bay doors with the intrusion system as required by AFI 31-101.

1.5.3. Q-D safety criteria in AFMAN 91-201 control siting of this facility.

1.5.4. AFMAN 91-201 contains additional guidance, especially regarding personnel and propagation protection between operating bays. Provide SDWs between operating bays to support concurrent operations and ensure they meet the criteria in AFMAN 91-201.

1.5.5. Provide lightning protection and electrical grounding system according to DoD 6055.9-Std and AFMAN 91-201.

1.5.6. Low pressure (0 to 150 psig) is necessary. 115 VAC, 60 Hz, single-phase and 115 VAC 400 Hz, 3-phase power is necessary. Emergency electric power generator is necessary per AFI 32-1063.

1.5.7. Environmental controls for humidity and temperature are necessary to assure proper protection for weapon systems and test equipment. Provide HVAC for office, training, and bay areas.

1.5.8. Roll-up bay doors should be a minimum 3 m (10 ft) high and 4.80 m (16 ft) wide.