

**Shop, Missile Assembly. (Missile Assembly Shop/Integrated Maintenance Facility [IMF])
FAC: 2121**

CATCODE: 212212

OPR: AF/A4LW

OCR: ACC/A4W

1.1. **Description.** This shop provides space for transferring and preparing missiles for operational use, performing organizational level maintenance involving component and subsystem replacement, and performing organizational or bench level maintenance support for certain components. It also supports electrical testing and the evaluation of individual missiles and empty/loaded launcher systems. The maintenance facility consists of drive-through work bays, office space, a tool room, a ready room, and latrines. The drive-through work bays should have a smooth approach and apron area.

1.2. **Requirements Determination.** This facility is necessary to perform organizational maintenance on missile weapon systems. Obtain additional information from ACC/A4W.

1.3. **Scope Determination.** Requirements are unique to each type of weapons system and space requirements can be obtained through acquisition contracts.

1.4. **Dimensions.** Contact OPR for latest requirements and guidance.

1.5. **Design Considerations.**

1.5.1. The facility requires space for a hydraulic unit and emergency electric power generator. Also equip facilities with surge protection.

1.5.2. The shop requires a transverse mounted hoist for support equipment handling.

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

1.5.4. Facility should accommodate simultaneous loading of launchers and pylons. Ensure missile shops comply with local, state, and federal requirements and other guidance as defined in AFMAN 32-1084 Chapter 1 in respect to fuel vapor emissions, as required by AFI 32-7040.

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

1.5.6. Refer to AFMAN 91-201 for additional guidance on personnel and propagation protection between operating bays. Substantial Dividing Walls (SDW) 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.

1.5.7. Provide low pressure air (0-150 pound-force per square inch gauge [psig]) and high-pressure air (0-3500 psig). The facility may also require 120VAC, 400Hz, 3- phase power dependent on assigned missile systems as described

in UFC 3-520-01, *Interior Electrical Systems*, and AFMAN 91-201.