

ECM Pod Shop and Storage. FAC: 2171

CATCODE: 217713

OPR: AF/A4L

OCR: ACC/A4MA

1.1. **Description.** This facility performs organizational and intermediate maintenance and provides secure storage of pods and associated equipment.

1.2. **Requirements Determination.** The maintenance shop provides a controlled environment to inspect, maintain, and repair pods and associated equipment. Equipment includes powered and non-powered aircraft generation equipment (AGE), test benches, and bench stock. (See paragraph 1.5)

1.3. **Scope Determination.** The storage area for pods and associated equipment provides physical security and optimum system availability for bench maintenance and aircraft loading, using approved lifting and transporting AGE. Major items of equipment that require space are a pod lifting device (overhead crane, A-frame with hoist, or hydraulic crane); pod cradles or storage racks for serviceable pods; pod cradles or storage bins for pod systems waiting for parts; MJ1A bomb lift pod adapters; and pod dollies. See Table 1.1 for space requirements.

1.4. **Dimensions.** See Table 1.1 below.

1.5. **Design Considerations.** The preferred location is near avionics maintenance and the flight line. Combining maintenance and storage facilities is desirable. Maintain the pod maintenance area at 26°C ± 1°C (78°F ± 2°F) and between 35 and 65 percent humidity. Maintain the pod storage area between 16°C (60°F) and 29°C (85°F) with 65 percent maximum humidity. Dual Power requirements are needed: 400 Hz, 115 VAC (3- phase) and 50-60 Hz, 110 VAC. Separate overhead power distribution busses with emergency power disconnect are necessary. Directly incorporate intrusion detection/security breach alert systems with Security Forces to ensure swift response. Ensure building architecture incorporates measures to provide for and protect SECRET information/assets. Ensure shop design complies with facility design instructions to minimize radiation exposure as outlined in paragraph 3.2. of AFI 48-148.

Table 1.1. Space Requirements for Pod Shops.

Function	Number of Sets of Pod Support Equipment ^{1,2}							
	1		2		3		4	
	Gross Area							
	m ²	ft ²	m ²	ft ²	m ²	ft ²	m ²	ft ²
Maintenance	181	1,950	323	3,480	465	5,010	608	6,540
Storage	368	3,961	736	7,922	1,104	11,883	1,472	15,844
Total Gross Area	549	5,911	1,059	11,402	1,569	16,893	2,080	22,384
NOTES:								
1. Each set of pod support equipment maintains 25 electronic countermeasure (ECM) pods.								
2. For additional pod storage space for Centralized Repair Facilities see Table 1.2, Note 2.								

Table 1.2. Space Requirements for Vehicle Maintenance Support Core.

Total Assigned Vehicles	Gross Area	
	m²	ft²
0 to 250	465	5,000
251 to 500	557	6,000
501 to 700	650	7,000
701 to 900	743	8,000
901 to 1,100	790	8,500
1,101 to 1,200	836	9,000
1,201 to 1,300	883	9,500