# BY ORDER OF THE COMMANDER AIR FORCE RESERVE COMMAND

# AIR FORCE RESERVE COMMAND HANDBOOK 32-1001

25 JANUARY 2012

**Civil Engineering** 

STANDARD FACILITY REQUIREMENTS

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OPR: HQ AFRC/A7PP

Supersedes: AFRCH32-1001, 30 August 2010

This handbook implements AFPD 32-10, Installations and Facilities. It contains guidelines and information for facility requirements in support of Air Force Reserve Command missions. The criteria in this handbook represent standard space allowances. These guidelines shall be used by key personnel in AFRC civil engineering, and key personnel in other AFRC organizations who allocate space in existing facilities or develop or approve facility requirements. This publication does not apply to the Air National Guard (ANG) but does apply to the Air Force Reserve Command (AFRC) and their units. The use of existing facilities will conform to criteria contained within this handbook unless the physical configurations of existing structures require variances from these guidelines. Criteria for items not addressed in this handbook may be found in AFH 32-1084, Facility Requirements. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of in accordance with (IAW) Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) located at https://www.my.af.mil/afrims/afrims/afrims/rds/rds\_series.cfm. Refer recommended changes, comments, or questions about this publication to the Office of Primary Responsibility (OPR) at Headquarters Air Force Reserve Command (HQ AFRC/A7PP), 255 Richard Ray Blvd, Bldg 220, Robins AFB GA 31098-1635, using the Air Force (AF) IMT Form 847, Recommendation for Change of Publication, route AF IMT 847s from the field through the appropriate functional chain of command. See Attachment 1 for a glossary of references and supporting information.



Certified by: HQ AFRC/A7P (Lt Col Craig P. Johnson) Pages: 84

#### SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include updates to space authorizations to reflect current mission requirements and Air Force standards. Mathematical errors in previous publication have been corrected. Data and tables for Facility Category Codes, Civil Engineering squadrons, Wing and Group Command Sections, Aircrew Flight Equipment, Aircraft Jack Test Stands, Bioenvironmental Engineer, Explosive Ordnance Disposal, Avionics, Wing Process Manager, Exercise Evaluation Team, Maintenance Supply Liaison, Maintenance Squadrons, Contracting, Intelligence Squadron, Guardian Angel Squadron, Force Support Squadron, RED HORSE Squadron, Wing Information Protection, Judge Advocate, Intelligence Flight, Military Personnel Flight, and Combat Arms Training have been updated to reflect new space allocation standards. Requirements for open office construction standards have been amplified. Paragraphs in Chapters 7, 8 and 9 have been renumbered.

| Chapt | er 1—0 | <b>VERVIEW</b>  | 7       |
|-------|--------|---|---------|
|       | 1.1.   | Purpose.  | 7       |
|       | 1.2.   | Requirements and Criteria Development:  | 7       |
| СНАР  | TER 2- | -BUILDING A REQUIREMENT   | 9       |
|       | 2.1.   | This handbook does not cover every possible mission or function within its chapters a tables. | nd<br>9 |
|       | 2.2.   | Open areas will be constructed for administrative functions (see 1. 2.4.).                    | 9       |
| Table | 2.1.   | Typical Administrative Spaces.  | 9       |
|       | 2.3.   | Conversion of net scope to gross facility scope:  | 9       |
|       | 2.4.   | Facility Category Codes:  | 9       |
| СНАР  | TER 3- | -BASE OPERATING SUPPORT   | 11      |
|       | 3.1.   | Base Operating Support (BOS) functions.   | 11      |
|       | 3.2.   | Base Operating Support (BOS) – Wing Functions:  | 11      |
|       | 3.3.   | Base Operating Support (BOS) - AFRC Host Base Functions                                       | 11      |
|       | 3.4.   | Security Forces Squadron at AFRC Bases  | 11      |
| Table | 3.1.   | Security Forces Squadron.   | 12      |
| Table | 3.2.   | Vault for Deployable Weapons Storage.   | 13      |
| Table | 3.3.   | Visitors Control Center.  | 13      |
|       | 3.5.   | Logistics Readiness Squadron - Vehicle Operations Element (Cat Code 610-121):                 | 14      |
| Table | 3.4.   | Vehicle Operations Administration.  | 14      |
|       | 3.6.   | Logistics Readiness Squadron - Vehicle Maintenance Element (Cat Code 214-425):                | 14      |
| Table | 3.5.   | Vehicle Maintenance Shop.   | 14      |

|       | 3.7.   | Contractor Operations (Cat Code 610-811):                                       | 15 |
|-------|--------|---|----|
|       | 3.8.   | Base Civil Engineer Administration and Maintenance Facility (Cat Code 610-127): | 15 |
| Table | 3.6.   | Base Civil Engineering.   | 16 |
|       | 3.9.   | Logistics Readiness Squadron – Distribution Element (Cat Code 442-758):         | 17 |
| Table | 3.7.   | Logistics Readiness Squadron – Distribution Element.                            | 17 |
| Chapt | er 4—A | IRFIELD PAVEMENTS   | 19 |
|       | 4.1.   | General Criteria.   | 19 |
|       | 4.2.   | Civil Airport Criteria.   | 19 |
|       | 4.3.   | Runway (Cat Code 111-111):  | 19 |
|       | 4.4.   | Paved Overrun (Cat Code 111-115):   | 19 |
|       | 4.5.   | Taxiway (Cat Code 112-211):   | 19 |
|       | 4.6.   | Apron (Cat Code 113-321):   | 19 |
| Chapt | er 5—P | ETROLEUM DISPENSING AND OPERATING FACILITIES                                    | 20 |
|       | 5.1.   | Logistics Readiness Squadron Fuels Management Element (Cat Code 121-111):       | 20 |
| Table | 5.1.   | Fuels Operations Facility.  | 20 |
|       | 5.2.   | Hydrant Refueling System (Cat Code 121-122):                                    | 20 |
|       | 5.3.   | Vehicle Fueling System (Cat Code 123-335):                                      | 20 |
|       | 5.4.   | Jet Fuel Operating Storage (Cat Code 124-135):                                  | 20 |
| Table | 5.2.   | Jet Fuel Storage Maximum Capacity.  | 20 |
| Chapt | er 6—C | COMMUNICATION, NAVIGATIONAL AIDS, AIR TRAFFIC CONTROL, AND AIRFIELD LIGHTING    | 22 |
|       | 6.1.   | General Criteria.   | 22 |
|       | 6.2.   | Special Criteria.   | 22 |
|       | 6.3.   | Communications and Information Facility (Cat Code 131-111):                     | 22 |
| Table | 6.1.   | Base Communications Facility.   | 22 |
| Chapt | er 7—0 | PPERATIONAL FACILITIES  | 25 |
|       | 7.1.   | Base Airfield Operations Management (Cat Code 141-453):                         | 25 |
| Table | 7.1.   | Base Operations Facility.   | 25 |
|       | 7.2.   | Air Traffic Control Facility (Cat Code 149-962):                                | 25 |
|       | 7.3.   | Command Post (Cat Code 141-461):  | 26 |
| Table | 7.2.   | Command Post.   | 26 |
|       | 7.4.   | Crew Readiness (Aircrew Alert Facility) (Cat Code 141-459):                     | 27 |
|       | 7.5.   | Squadron Operations (Cat Code 141-753):   | 27 |

| Table | 7.3.   | Squadron Operations Facility – Airlift/Tanker.   |
|-------|--------|--|
| Table | 7.4.   | Squadron Operations – Fighters   |
| Table | 7.5.   | Guardian Angel Squadron Operations.  |
| Table | 7.6.   | Associate Space / UAV Squadron.  |
| Table | 7.7.   | Aeromedical Evacuation Squadrons.  |
|       | 7.6.   | Aircrew Flight Equipment (Cat Code 218-852):   |
| Table | 7.8.   | Aircrew Flight Equipment Facility Requirement.   |
|       | 7.7.   | Tanker/Airlift Control Flight (ALCF) (Cat Code 171-445):                               |
| Table | 7.9.   | Tanker/Airlift Control Flight.   |
| Table | 7.10.  | ALCF UTC Packages.   |
|       | 7.8.   | Information Operations Flight (Cat Code 610-243):                                      |
| Table | 7.11.  | Information Operations Flight.   |
|       | 7.9.   | Air Mobility Operations (Cat Code 141-753):  |
| Table | 7.12.  | Air Mobility Operations Squadron.  |
|       | 7.10.  | Survival Evasion Resistance and Escape (SERE) Instructors (Cat Code 141-753):          |
| Table | 7.13.  | SERE Instructors   |
|       | 7.11.  | Intelligence Squadrons (Cat Code 141-454):   |
| Table | 7.14.  | Intelligence Squadron.   |
| Table | 7.15.  | Intelligence Flights.  |
| Chapt | er 8—T | RAINING FACILITIES   |
|       | 8.1.   | Basic Item, Reserves Forces General Training Support.                                  |
|       | 8.2.   | Communication Squadron (Cat Code 171-443):   |
| Table | 8.1.   | Communications Squadron.   |
|       | 8.3.   | Security Forces Squadron at Tenant Bases (Cat Code 171-443):                           |
| Table | 8.2.   | Security Forces Squadron (Tenant Location).  |
| Table | 8.3.   | Combat Arms Training.  |
|       | 8.4.   | Civil Engineer Prime BEEF Squadron:  |
| Table | 8.4.   | CE Prime BEEF Squadron, Expeditionary Engineering and Installations Support functions: |
| Table | 8.5.   | Emergency Management:  |
| Table | 8.6.   | Firefighter Training.  |
| Table | 8.7.   | Explosive Ordnance Disposal (EOD) Flight.  |
|       | 8.5.   | RED HORSE Squadron Facilities (Cat Code 171-443):                                      |

| Table  | 8.8.   | RED HORSE Squadron.   | 47 |
|--------|--------|---|----|
|        | 8.6.   | Wing and Group Headquarters.  | 48 |
| Table  | 8.9.   | Wing Command Section.   | 48 |
| Table  | 8.10.  | Group Command Section.  | 49 |
| Table  | 8.11.  | Squadron Command Section.   | 50 |
| Table  | 8.12.  | Squadron Command Section.   | 52 |
| Table  | 8.13.  | LRS Command Section.  | 53 |
| Table  | 8.14.  | Logistics Readiness Squadron – Management and Systems Element                   | 54 |
| Table  | 8.15.  | Financial Management Function.  | 55 |
| Table  | 8.16.  | Contracting   | 56 |
| Table  | 8.17.  | Office of Special Investigation.  | 58 |
|        | 8.7.   | Combat Communications (Cat Code 171-447):                                       | 58 |
| Table  | 8.18.  | Combat Communications Squadron.   | 58 |
|        | 8.8.   | Recruiters (Cat Code 610-249):  | 60 |
| Table  | 8.19.  | Recruiting  | 60 |
|        | 8.9.   | Deployment Processing Facility (Cat Code 141-786):                              | 60 |
|        | 8.10.  | Reserve Forces Medical Training and Administration Facility (Cat Code 171-450): | 63 |
| Table  | 8.20.  | Aeromedical Staging Squadrons.  | 63 |
| Table  | 8.21.  | Medical Unit  | 64 |
|        | 8.11.  | Bioenvironmental Engineering/Military Health (Cat Code 171-443):                | 66 |
| Table  | 8.22.  | Bioenvironmental Engineering.   | 66 |
|        | 8.12.  | Aerial Port Training Facility (Cat Code 171-873):                               | 66 |
| Table  | 8.23.  | Aerial Port Squadron.   | 67 |
| Chapte | er 9—M | IAINTENANCE FACILITIES  | 68 |
|        | 9.1.   | Hangar (Cat Code 211-111):  | 68 |
| Table  | 9.1.   | Hangar Quantity Factors.  | 68 |
|        | 9.2.   | Maintenance Operations Squadron (Cat Code 610-129):                             | 68 |
| Table  | 9.2.   | Maintenance Operations Squadron.  | 68 |
|        | 9.3.   | Maintenance Supply Liaison (MSL) (CAT Code 211-154):                            | 69 |
|        | 9.4.   | Maintenance Squadron (MXS) (Cat Code 211-154):                                  | 69 |
| Table  | 9.3.   | Maintenance Squadron.   | 70 |
| Table  | 9.4.   | Maintenance Squadron and Shops (MXS) Sized by Weapon System                     | 70 |
|        | 9.5.   | Aircraft Organization Maintenance Shop (Cat Code 211-154):                      | 72 |

| Table  | 9.5.    | Aircraft Maintenance Squadron (AMXS).  | 72  |
|--------|---------|--|-----|
|        | 9.6.    | Fuel Systems Maintenance Dock (Cat Code 211-179):                                  | 73  |
|        | 9.7.    | Weapons Release, Gun Systems, Munitions Maintenance, and Munitions Training:       | 73  |
| Table  | 9.6.    | Weapons Related Facility Summary.  | 73  |
|        | 9.8.    | Avionics Shop (Cat Code 217-712):  | 73  |
| Table  | 9.7.    | Avionics Shop.   | 74  |
|        | 9.9.    | Electronic Countermeasures (ECM) Pod Shop/Storage Facility (Cat Code 217-713):     | 74  |
| Table  | 9.8.    | Pod Maintenance Shop/Storage Facility.   | 74  |
|        | 9.10.   | Aerospace Ground Equipment (AGE) (Cat Code 218-712):                               | 74  |
| Table  | 9.9.    | Aerospace Ground Equipment Facility.   | 75  |
| Chapte | er 10—] | EXPLOSIVES STORAGE   | 76  |
|        | 10.1.   | Rocket Storage and Assembly Building (Cat Code 422-256):                           | 76  |
|        | 10.2.   | Segregated Magazine (Cat Code 422-257):  | 76  |
|        | 10.3.   | Above Ground Magazine (Cat Code 422-258):  | 76  |
|        | 10.4.   | Storage Multicube (Cat Code 422-253):  | 76  |
|        | 10.5.   | Storage Igloo (Cat Code 422-264):  | 76  |
|        | 10.6.   | Inert Spares Storage (Cat Code 422-265):   | 76  |
| Chapte | er 11—9 | STORAGE FACILITIES - COVERED/OPEN, AND SPECIAL PURPOSE                             | 77  |
|        | 11.1.   | Base Hazardous Storage/Hydrazine Storage and Servicing Facility (Cat Code 442-257) | :77 |
|        | 11.2.   | Liquid Oxygen/Nitrogen Storage (LOX/LIN) (Cat Code 442-258):                       | 77  |
|        | 11.3.   | Base Supply and Equipment Warehouse (Cat Code 442-758):                            | 77  |
| Table  | 11.1.   | Aircraft Parts Storage.  | 78  |
| Table  | 11.2.   | Readiness Spares Package.  | 78  |
|        | 11.4.   | Equipment Storage for Force Support Squadron (Cat Code 740-672):                   | 78  |
| Table  | 11.3.   | Home station Training.   | 78  |
| Attach | ment 1- |  | 80  |

#### **OVERVIEW**

**1.1. Purpose.** The guidelines in this handbook are applicable to the Air Force Reserve Command (AFRC) and implement DOD construction criteria directives.

#### **1.2. Requirements and Criteria Development:**

1.2.1. The criteria in this handbook are the space allowances authorized within AFRC. HQ AFRC functional managers are consulted for space requirements within their areas of responsibility. HQ AFRC/A7PP gathers and compiles these requirements into this handbook. Actual space requirements for each facility (existing or to be constructed) are programmed and justified on the basis of the authorized unit strength and the quantity and type of equipment and supplies to be stored. Adaptive use of existing facilities should be implemented to the maximum extent possible. The use of existing facilities should conform to the following criteria as nearly as possible; however, it is recognized that physical characteristics of existing structures will, in some cases, restrict adherence. Although the facility space standards contained herein are expected to adequately accommodate the majority of AFRC units, we recognize that, due to the highly diversified and, in some cases unique, structure of AFRC operations, a single facility standard will not accommodate every need. Exceptions to facility space criteria will be considered when specific unit functions are not addressed within the established standards or when unique and compelling circumstances exist.

1.2.1.1. All requests for facility space exceptions and waivers shall be forwarded in writing to AFRC/A7P for staffing and coordination through HQ AFRC. The waiver request will contain an analysis of the requirement and depict cost avoidance as applicable.

1.2.1.2. All requests for facility space exceptions and waivers will be reviewed by appropriate members of the HQ AFRC staff and functional experts within the Command. Requests for waivers and exceptions shall be reviewed in a timely fashion and a written reply provided back to the generating unit.

1.2.2. All facility space requirements are given in terms of net area, unless noted otherwise. Gross area for new construction can be computed by use of noted factors (overhead {common use space} 33%) and includes the entire facility to the outside enclosure walls.

1.2.2.1. The gross authorization calculation does not always apply to the use of existing facility space (renovation or alteration). A circulation space factor of only 10% is applied if the mechanical rooms, entryways, bathrooms, hallways, and other common use spaces are not modified.

1.2.3. The space allowances for communications closets and electrical closets are intended for planning purposes and are not to be taken as design criteria. A communication/electrical closet area is added to each reserve facility space. This calculation is 3% of the subtotaled net authorization.

1.2.4. All new construction and renovation projects shall configure buildings to support an open office concept with moveable partitions, demountable walls and systems furniture to allow maximum flexibility for the projected and future users. Hard walls shall be used only when necessary to provide required building integrity, security or to meet building code standards. Where possible, offices shall be joint use and the number and size of exclusive offices kept to a minimum. The allocation for cubicle space in Table 2.1 includes circulation space within the open office area.

1.2.5. When more than one activity occupies a single facility, overhead space (mechanical rooms, halls, etc.) is accounted appropriately against the individual functional authorizations.

1.2.6. Program joint use facilities to the maximum extent practicable where the ANG, Active Force, and Air Force Reserve Command (AFRC) are collocated. Consider facilities such as medical training, dormitories, dining halls, bulk fuel storage, vehicle maintenance, communications centers, small arms ranges, fire stations, munitions/ pyrotechnics storage facilities, etc., for joint use.

1.2.7. Facility space authorizations are based on actual personnel authorizations for each function. Although it is recognized that local variations in unit manning, facility configurations, and customer needs will result in diverse arrangements of internal space, total (gross) authorizations for facilities should not be exceeded and, in many cases, will be reduced to reflect actual unit authorizations.

#### **BUILDING A REQUIREMENT**

**2.1.** This handbook does not cover every possible mission or function within its chapters and tables. In order to identify new requirements, HQ AFRC/A7PP, in coordination with functional experts within the Command, creates new templates or tables for the purpose of defining space authorizations for a particular mission need. Space authorizations for unique activities are reviewed by HQ AFRC/A7PP on a case-by-case basis. When establishing a space authorization for a new or unique mission need, the programmer should make a comparison with similar facilities as well as review active duty Air Force and DOD facility standards, guidance, and design standards.

#### 2.2. Open areas will be constructed for administrative functions (see 1. 2.4.).

#### Table 2.1. Typical Administrative Spaces.

| Function   | Scope<br>(net SF) |
|--|-------------------|
| Wing Commander   | 350               |
| Group Commander, Wing Vice Commander                               | 250               |
| Squadron Commander or equivalent Function Chief (SF, CE, etc.)     | 200               |
| Deputy Group or Squadron Commander, First Sergeant                 | 120               |
| Flight CC, Supervisor, NCOIC, Superintendent                       | 100               |
| General Office cubicle, Full time position, Executive Officer      | 70                |
| Administrative/Secretary   | 100               |
| Traditional reservists (TRs) requiring administrative office space | 40                |

**2.3.** Conversion of net scope to gross facility scope: There are typically three calculations that may be used to arrive at the gross SF authorized depending on the scope of work being done; minor modification to an existing facility, major modification to an existing facility or new construction, and construction of storage space.

2.3.1. **Minor modification to existing facility:** When completing minor modifications to an existing facility, add 10% circulation space to the net scope for the gross authorization.

2.3.2. **Major modification to existing facility or new construction:** If major facility modification or new construction is required, determine the gross facility requirement by adding 3% to the subtotaled net scope for communications/electrical closet requirements, add 10% for circulation space, and then add an additional 20% for facility overhead.

2.3.3. **Storage space construction:** When constructing storage space, add 20% facility overhead to the net scope for the gross authorization. Only add the 3% communications/ electrical closet factor if these elements are required within the facility.

**2.4. Facility Category Codes:** Real Property Cat Codes are assigned based on the functions of the subject facility.

2.4.1. Facilities located on AFRC host installations should be coded in accordance with active duty Cat Codes contained in AFH32-1084.

2.4.2. In order to avoid duplication of facility coding at AFRC tenant unit locations, use Cat Codes noted herein.

2.4.3. Category Codes for unique AFRC facilities, or other facilities not addressed in this publication will be determined by HQ AFRC/A7IA on a case-by-case basis.

#### **BASE OPERATING SUPPORT**

**3.1. Base Operating Support (BOS) functions.** Base Operating Support (BOS) functions include those activities that, while necessary to provide a fully functional installation, are not directly in support of the base primary mission. Most BOS functions are the responsibility of the Host installation.

**3.2. Base Operating Support (BOS)** – Wing Functions: The requirements for the BOS functions listed below can be found in Paragraph 8.7.

- 3.2.1. Financial Management (Budget Office).
- 3.2.2. Civilian Personnel.
- 3.2.3. Force Support Squadron.
- 3.2.4. Contracting.
- 3.2.5. Public Affairs.
- 3.2.6. Judge Advocate.
- 3.2.7. Chaplain.
- 3.2.8. Safety.
- 3.2.9. Historian
- 3.2.10. Sexual Assault Response Coordinator (SARC)
- 3.2.11. Protocol Office.
- 3.2.12. Anti-terrorism Officer (ATO)
- 3.2.13. Office of Special Investigations

**3.3. Base Operating Support (BOS) - AFRC Host Base Functions.** The requirements for the BOS functions listed in paragraph 3.4 through paragraph 3.9 are indicated here for convenience even though some may have separate category codes.

#### 3.4. Security Forces Squadron at AFRC Bases.

3.4.1. Security Forces Control and Identification (Gate House) (Cat Code 730-839): Reference Air Force Installation Entry Control Facilities Design Guide for design criteria.

3.4.2. Security Forces Operations (Cat Code 730-835): This facility is the command center for the direction of security, police services (law enforcement), crime prevention, training, information/personnel/industrial security, force protection, and resource protection operations. It is also the site for the SF control center (Central Security Control/Law Enforcement Desk), armory, and unit mobility/supply. Space authorization for this facility is determined by unit manning and number of assigned unit task codes (UTCs). Offices in the facility include the Chief of Security Forces (CSF), Chief of Operations Flight, Security

Forces Manager, and other support sections. Table 3.1 shows proposed space allocation for a Security Forces Squadron (SFS).

# Table 3.1. Security Forces Squadron.

|  | SCOPE<br>(SF)<br>Large<br>Unit | SCOPE<br>(SF)<br>Medium<br>Unit (note | SCOPE<br>(SF)<br>Small<br>Unit |
|--|--------------------------------|---------------------------------------|--------------------------------|
| DESCRIPTION                                      | ( <b>note 1</b> )              | 2)                                    | (note 3)                       |
| Chief, Security Forces/Commander (CSF/CC)        | 200                            | 200                                   | 200                            |
| CSF/CC (TR)                                      | 100                            | 100                                   | N/A                            |
| Conference Room                                  | 200                            | 200                                   | N/A                            |
| First Sergeant                                   | 120                            | 120                                   | N/A                            |
| Orderly Room/Administration (300 SF + 40 SF/Auth |                                |                                       |                                |
| TR)  | 340                            | 340                                   | N/A                            |
| Security Forces Manager (SFM)                    | 100                            | 100                                   | N/A                            |
| Quality Control NCO (70 SF + 40 SF/Auth TR + 100 |                                |                                       |                                |
| SF for QC Test Area)                             | 210                            | 170                                   | N/A                            |
| Chief, SF Administration (SFA)                   | 100                            | 100                                   | 100                            |
| Information/Personnel/Industrial Security        | 100                            | 100                                   | 100                            |
| Pass & Registration/Waiting Area                 | 200                            | 200                                   | 200                            |
| Chief, Operations Flight (SFO)                   | 100                            | 100                                   | 100                            |
| Superintendent, Operations Flight                | 70                             | 70                                    | N/A                            |
| SFO Support Staff (70 SF/Auth Pos)               | 560                            | 70                                    | N/A                            |
| Shift Supervisor/Flight Chief/Leader (70 SF/Auth |                                |                                       |                                |
| Pos)   | 210                            | 210                                   | 210                            |
| Squad Leader (70 SF/Auth Pos)                    | 210                            | 210                                   | N/A                            |
| Fire Team Leader (70 SF/Auth Pos)                | 210                            | 210                                   | N/A                            |
| SF Control Center/Battle Staff Room              | 600                            | 600                                   | 600                            |
| Evidence Storage Room                            | 50                             | 50                                    | N/A                            |
| Lost & Found Property Room                       | 50                             | 50                                    | N/A                            |
| Report Writing Room (2 @ 50 SF)                  | 100                            | 100                                   | 100                            |
| Interrogation/Interview Room (note 4)            | 100                            | 100                                   | N/A                            |
| Chief, Training & Resources Flight (SFT)         | 100                            | 100                                   | 100                            |
| Superintendent, SFT                              | 70                             | N/A                                   | N/A                            |
| Training Instructor                              | 70                             | 70                                    | N/A                            |
| Instructor Support (60 SF/Auth Pos)              | 70                             | 70                                    | N/A                            |
| Classroom (Partitioned)                          | 1,295                          | 1,140                                 | 440                            |
| Unit Career Advisor/Safety/Historian/DP          | 70                             | 70                                    | N/A                            |
| SF Resources (SFTT)                              | 100                            | 100                                   | N/A                            |
| SF Resources Support (70 SF/Auth Pos)            | 280                            | 280                                   | N/A                            |
| Armory (note 5)                                  |                                |                                       |                                |
| Weapons Cleaning Area                            | 100                            | 100                                   | 100                            |
| Mobility Storage/Pallets/Build-up (note 6)       | 4,900                          | 3,500                                 | N/A                            |
| Home Station Equipment Storage                   | 250                            | 200                                   | 150                            |
|  |                                |                                       |                                |

| Break Room                   | 200    | 200    | 100   |
|------------------------------|--------|--------|-------|
| Men's Locker Room/Shower     | 350    | 300    | 200   |
| Women's Locker Room/Shower   | 150    | 150    | 150   |
| Subtotal (net)               | 11,935 | 9,680  | 2,850 |
| Overhead Space (30%)         | 3,580  | 2,900  | 860   |
| Communications/Electric (3%) | 360    | 290    | 90    |
| Total (gross)                | 15,880 | 12,870 | 3,800 |

#### **NOTES:**

1. Large Units: 439/452/482 SFS

2. Medium Units: 94/434/910/911/914/934 SFS

3. Small Units: 301/926 SFS

4. Includes one-way glass room

5. Calculating storage requirements will involve several factors unique to each individual installation. These factors include: number/type of SFS unit daily weapons, munitions and equipment; i.e., radios, night vision equipment and other essential equipment. Also included in the calculation are any other weapons stored in the armory, to include: tenant, mobility, privately owned, aircrew, honor guard, etc.

6. Calculation is based on 700 square feet per authorized unit equipped UTC. Adjust authorization to reflect actual number of unit equipped UTCs.

#### Table 3.2. Vault for Deployable Weapons Storage.

|                   | SCOPE  | SCOPE<br>Gross |
|-------------------|--------|----------------|
| DESCRIPTION       | Net SF | SF             |
| No. of Deployable |        |                |
| Personnel         |        |                |
| <500              | 200    | 240            |
| 501-1000          | 300    | 360            |
| 1001 - 2000       | 400    | 480            |
| 2001 - 3000       | 500    | 600            |
| 3001 - 4000       | 600    | 720            |

3.4.3. Visitors Control Center (Cat Code 730-832): If constructed as a separate facility, each host installation is authorized a visitors center. This authorization includes space for Pass and ID, restrooms, and a media relations room (large conference room). Table 3.3 shows proposed space allocation for a Visitors Control Center (VCC). Additional functions may be added to this facility (such as recruiters offices) as desired by the installation commander. Do not duplicate functional space present in the VCC (i.e. Pass and ID, recruiters, etc.) elsewhere on the installation.

### Table 3.3. Visitors Control Center.

|              | SCOPE         |
|--------------|---------------|
| DESCRIPTION  | ( <b>SF</b> ) |
| Pass and ID  | 340           |
| Waiting Area | 300           |
| Restrooms    | 350           |

| Media Center (conference     |       |
|------------------------------|-------|
| room)                        | 300   |
| SF Storage                   | 100   |
| Break Area                   | 150   |
| Subtotal (net)               | 1,540 |
| Overhead Space (30%)         | 460   |
| Communications/Electric (3%) | 50    |
| Total (gross)                | 2,050 |

**3.5. Logistics Readiness Squadron - Vehicle Operations Element (Cat Code 610-121):** AFRC units with an assigned Vehicle Operations and Maintenance function are authorized a facility. This allowance includes space for all administrative, supervisory, and training activities associated with the Vehicle Operations function at AFRC installations. Table 3.4 shows proposed space allocation for a base vehicle operations administration function.

#### Table 3.4. Vehicle Operations Administration.

|                              | SCOPE         |
|------------------------------|---------------|
| DESCRIPTION                  | ( <b>SF</b> ) |
| Transportation Officer       | 120           |
| Operations Supervisor (1 @   |               |
| 100, 1 @ 40)                 | 140           |
| Dispatch Control (2 @ 70, 6  |               |
| @ 40)                        | 380           |
| Administration Area          | 100           |
| Break Room                   | 200           |
| Conference/Classroom         | 400           |
| Vehicle Operations           | 320           |
| Subtotal (net)               | 1,660         |
| Overhead Space (30%)         | 490           |
| Communications/Electric (3%) | 50            |
| Total (gross)                | 2,200         |

**3.6. Logistics Readiness Squadron - Vehicle Maintenance Element (Cat Code 214-425):** AFRC units with an assigned Vehicle Operations and Maintenance function are authorized a facility. This allowance includes space for all maintenance and tool/equipment storage activities associated with the Vehicle Maintenance function. Typical vehicle maintenance facilities will contain no more than nine vehicle maintenance bays with at least two bays able to accommodate the largest vehicle assigned to the unit. At least a single bay must have a door opening width of 17 feet (based on 60K loader maintenance requirement). Floor drains in this facility should be avoided but, if present, will be connected to oil/water separators or waste water recovery/recycling systems. Table 3.5 shows proposed space allocation for a base vehicle maintenance shop facility. Vehicle Operations Administration and Vehicle Maintenance Shop should be constructed together in one facility.

|                                 | SCOPE         |
|---------------------------------|---------------|
| DESCRIPTION                     | ( <b>SF</b> ) |
| Inspector's Office / QAE (1 @   |               |
| 70, 1 @ 40)                     | 110           |
| Library/Tech Manual             | 100           |
| Dynamometer Bay                 | 1,020         |
| Alignment                       | 540           |
| Battery                         | 145           |
| Wheel and Tire                  | 700           |
| Tool Crib                       | 375           |
| Material Control/Bench Stock    | 300           |
| Machine Shop                    | 800           |
| Maintenance Lift Bays (4 @ 510) | 2,040         |
| General Purpose Maintenance     |               |
| Bays (4 @ 510)                  | 2,040         |
| Wash rack                       | 600           |
| Drive Through Corridor          | 3,250         |
| Subtotal (net)                  | 12,020        |
| Overhead Space (30%)            | 3,600         |
| Communications/Electric (3%)    | 360           |
| Total (gross)                   | 15,980        |

#### Table 3.5. Vehicle Maintenance Shop.

3.6.1. **Refueler Vehicle Maintenance Shop (Cat Code 214-467):** Space for this function may be provided as either a separate maintenance bay or by adding one bay to the vehicle maintenance shop. Re-fuel maintenance bay is authorized a scope of 1,800 square feet (based on R-11 vehicle requirements). If added to the automotive shop, this bay must be separated by a fire wall. If constructed as a separate facility, add 300 square feet for work bench and tool storage. Co-located office or administrative area is not authorized. Re-fuel maintenance facility must be provided with a single overhead door, a forced ventilation/exhaust system, a fume monitoring system, floor drains connected to an oil water separator, and an explosion proof electrical/telephone system.

3.6.2. Enclosed Vehicle Parking (Northern Tier): Installations meeting the definition of northern tier locations are authorized 6,000 square feet (gross) of heated vehicle storage space (Cat Code 214-426) and an additional 6,000 square feet (gross) of unheated vehicle storage space (Cat Code 214-428). This space is typically used for storage of high value and special purpose vehicles.

**3.7. Contractor Operations (Cat Code 610-811):** At AFRC installations that have contractor operated BOS functions, the contractor personnel should be provided administrative and functional work space equivalent to the lesser of either a) existing space for that function at the installation or b) the space authorized for their function in this handbook. BOS contractor project management and administrative staff are authorized no more than 400 square feet for office functions and file storage.

**3.8. Base Civil Engineer Administration and Maintenance Facility (Cat Code 610-127):** This facility provides shop and administrative space necessary to support all host base

maintenance functions performed by the base civil engineer as well as administrative and training space for assigned personnel. Table 3.6 shows proposed space allocation for a Base Civil Engineering facility. Additional space may be provided for additional activities (such as a pavements and ground facility (Cat Code 219-943)) where fully justified, using active force criteria. Space authorization for mobility tasked Civil Engineering Squadrons is addressed in section 8.5.

| <b>Table 3.6.</b> | Base | Civil | Engine | ering.         |
|-------------------|------|-------|--------|----------------|
|                   |      |       |        | - <del>-</del> |

| DESCRIPTION                                | SCOPE<br>(SF) |
|--|---------------|
| ADMINISTRATION                             |               |
| - Base Civil Engineer                      | 200           |
| - Administration                           | 100           |
| - Industrial Engineer                      | 70            |
| - LAN/Systems Administrator                | 200           |
| - Environmental (Chief 100, 5 @            | 520           |
| 70, 70 storage)                            | 520           |
| - Engineering (Chief 100, 4 @ 70,          | 480           |
| 100 storage)                               |               |
| - Chief of Resources                       | 100           |
| - Financial Management (2 @ 70,            | 200           |
| 60 storage)                                |               |
| - Real Estate (1 @ 70, 60 storage)         | 130           |
| - Training Storage                         | 60            |
| - Drafting/CADD (2 @ 90)                   | 180           |
| - Reproduction/Plans Storage               | 400           |
| - Break Room                               | 300           |
| - Conference Room                          | 300           |
| Subtotal (net)                             | 3,240         |
| OPERATIONS AND                             |               |
| MAINTENANCE                                |               |
| - Operations Chief (Contract QAE           | 100           |
| at BOS locations)                          | 100           |
| - Production Control (1 @ 70, 200          | 270           |
| storage)<br>- Material Control (1 @ 70, 60 | 270           |
| storage)                                   | 130           |
| - Planning (2 @ 70)                        | 130           |
| Subtotal (net)                             | 640           |
| WORK AREA and SHOP (See                    | 040           |
| Note 1, 2):                                |               |
| - Pest Management                          | 1,000         |
| - Roads and Grounds                        | 2,800         |
| - Refrigeration, HVAC, Liquid              | _,000         |
| Fuels                                      | 1,300         |
| - Sheet Metal                              | 1,200         |
|  | ,             |

| Dhambhara                    | 500    |
|------------------------------|--------|
| - Plumbing                   | 500    |
| - Welding Shop               | 500    |
| - Paint                      | 900    |
| - Carpentry Shop             | 1,900  |
| - Key Shop                   | 120    |
| - Sign Shop                  | 360    |
| - Power Production, Electric | 1,100  |
| Subtotal (net)               | 11,680 |
| STORAGE (See Note 2):        |        |
| - Warehouse                  | 3,000  |
| - Paint Storage              | 120    |
| - Janitorial Supplies        | 300    |
| Subtotal (net)               | 3,420  |
| Subtotal (net)               | 18,980 |
| Overhead Space (30%)         | 5,700  |
| Communications/Electric (3%) | 570    |
| Total (gross)                | 25,250 |

#### NOTES:

- 1. Includes space for four superintendents.
- 2. Individual shops and storage spaces utilized space saver equipment.

3.8.1. **Base Engineer Storage Shed (Cat Code 219-947):** This facility provides covered storage for items of equipment and supplies needed for installation operations and maintenance which do not require regular warehouse storage. A scope of 2,000 square feet is authorized for AFRC host base civil engineer organizations.

3.8.2. Base Engineer Recycling Operations Center (Cat Code 219-946): This facility provides enclosed and covered storage for equipment and supplies needed for operation of the installation recycling program and for storage of recyclable material prior to removal. Facility includes open office space for a single individual and utility connection for recycling processing equipment. A scope of 2,900 square feet is authorized for AFRC host installations. Additional outdoor secure space may be provided as needed to meet local storage requirements for material prior to removal.

**3.9. Logistics Readiness Squadron – Distribution Element (Cat Code 442-758):** This element of the Logistics Readiness Squadron operates the packing, crating, and traffic management office (TMO) (Cat Code 610-142) functions at Host and Tenant base locations. Table 3.7 shows proposed space allocation for the distribution element. Function space is typically located within the main base warehouse facility.

|                         | SCOPE         |
|-------------------------|---------------|
| DESCRIPTION             | ( <b>SF</b> ) |
| Distribution Operations | 750           |
| Packing and Crating     | 2,600         |
| TMO Administration      | 550           |
| Subtotal (net)          | 3,900         |
| Overhead Space (30%)    | 1,170         |
| Communications/Electric |               |
| (3%)                    | 120           |
| Total (gross)           | 5,190         |

# Table 3.7. Logistics Readiness Squadron – Distribution Element.

#### **AIRFIELD PAVEMENTS**

**4.1. General Criteria.** AFRC Requirements for items in this group are determined in the same manner as for active duty units when located at Air Force installations. Adherence to these requirements at other locations may not always be possible due to the multiplicity of situations under which AFRC operates. Federal Aviation Administration (FAA) airfield criteria are normally used for construction of runways, taxiways and associated work located on civil airports. Use naval airfield criteria for construction of airfield facilities located at Naval Air Stations.

4.2. Civil Airport Criteria. The criteria are detailed in AFH 32-1084.

**4.3. Runway (Cat Code 111-111):** Use active force criteria for runway length and other design elements. Standard runway width is 150 feet. Determine minimum runway width and lengths by operating function based on type of aircraft, weather conditions, and mission requirements.

4.4. Paved Overrun (Cat Code 111-115): Use AFH 32-1084 criteria.

**4.5. Taxiway (Cat Code 112-211):** Use active force criteria (UFC 3-260-1). A taxiway width of 15.2 m (50 ft) and 22.9 m (75 ft) are standard for class A and B runways respectively. Taxiways supporting towing operation will adhere to the following: Taxiway width will be in accordance with outside gear width of design aircraft plus 3.05 m (10 ft) or 15.2 m (50 ft) total width, whichever is less

**4.6.** Apron (Cat Code 113-321): Follow active force criteria. AFRC will not construct ramp space for transient aircraft parking but will provide transient aircraft parking on existing ramp space on as as-available basis.

#### PETROLEUM DISPENSING AND OPERATING FACILITIES

**5.1. Logistics Readiness Squadron Fuels Management Element (Cat Code 121-111):** A fuels operations building is required to provide a centralized facility for administering all base functions related to the receipt, storage, and issue of petroleum products and, when required, liquid oxygen and nitrogen (LOX and LIN). The facility allowance includes space for all management, administration, laboratory, and functional work space associated with the Logistics Readiness Squadron Fuels Management Element. Only one Fuels Operations facility is authorized per installation. Table 5.1 shows proposed space allocation for a base Fuels Operations Building.

| Table 5.1. | <b>Fuels Operat</b> | tions Facility. |
|------------|---------------------|-----------------|
|            |                     |                 |

|                              | SCOPE         |
|------------------------------|---------------|
| DESCRIPTION                  | ( <b>SF</b> ) |
| Vehicle Checkpoint Building  |               |
| (Detached)                   | 100           |
| Lab                          | 300           |
| Ready Room/Classroom         | 550           |
| Dispatch/Control             | 150           |
| Administration               | 250           |
| Locker/Latrine/Showers       | 300           |
| FMO Office                   | 100           |
| Subtotal (net)               | 1,750         |
| Overhead Space (30%)         | 530           |
| Communications/Electric (3%) | 50            |
| Total (gross)                | 2,330         |

**5.2. Hydrant Refueling System (Cat Code 121-122):** Hydrant refueling systems are required to support aircraft that carry over 20,000 gallons of fuel. Where hydrant systems are justified, provide a fueling position for the total number of primary assigned aircraft (PAA) minus two.

**5.3. Vehicle Fueling System (Cat Code 123-335):** Provide two duel outlet dispensing pedestals for ground fuels for each increment of 150 motor vehicles to be served. Provide at least one pedestal for mogas and another for diesel. Provide storage in above ground tanks.

5.3.1. Alternative / Bio-Base Fuel. Provide a minimum of one dispensing pedestal for E-85 fuel and one pedestal for B-20 fuel at each AFRC installation.

**5.4. Jet Fuel Operating Storage (Cat Code 124-135):** Provide combined storage requirements for both operating and bulk storage based on the requirements of the assigned weapon system per table 5.2. Combined operating and bulk storage not to exceed the following quantities for 12 PAA airlift and 24 PAA fighter units:

| AIRCRAFT        | QUANTITY<br>(BL) |
|-----------------|------------------|
| Fighter         | 5,000            |
| C-130           | 5,000            |
| KC-135/C-5/C-17 | 20,000           |

# Table 5.2. Jet Fuel Storage Maximum Capacity.

*NOTE:* Additional storage may be justified based on PAA, tenant support, and contingency requirements for the installation. Provide a minimum of two cone roof storage tanks.

# COMMUNICATION, NAVIGATIONAL AIDS, AIR TRAFFIC CONTROL, AND AIRFIELD LIGHTING

**6.1. General Criteria.** At AFRC owned locations, AFRC is responsible for air traffic control, air navigation facilities, Meteorological and Navigational Aids (METNAV) facilities and equipment, and airfield lighting. At joint use facilities, AFRC is responsible for these functions and facilities as described in the applicable Joint Use Agreement. AFRC responsibility will include, but is not limited to financial responsibility for operating and/or maintaining permanently installed NAVAID systems such as control towers, radar facilities, ground controlled approach (GCA), radar approach control (RAPCON), instrument landing system (ILS), VHF omnidirectional range (VOR), tactical navigational aid (TACAN), airport surveillance radar (ASR), and precision approach radar (PAR) navigational aids. All facilities will meet standard requirements established in AFH 32-1084.

**6.2. Special Criteria.** Installation of ground-based aids to air traffic control, air navigation facilities, and airfield lighting at civil airports is normally accomplished by the FAA and airport authority. The FAA has the responsibility for, and normally programs for, these facilities.

**6.3. Communications and Information Facility (Cat Code 131-111):** This host base facility provides centrally located communications and information systems, both for intra-base and off-base communications. This facility normally includes a switchboard room, frame room, administration, radio maintenance and communication/crypto centers for base communications, information system flight, mission systems flight, communications plans and programming flight, and automated data processing (ADP)/network control center (NCC). Table 6.1 shows proposed space allocation for a base communications facility.

#### Table 6.1. Base Communications Facility.

|   | SCOPE  |
|---|--------|
| DESCRIPTION                                 | (SF)   |
| Network Control Center (NCC) / Help Desk    | 1,800  |
| Classified Destruction                      | 50     |
| Communications Security Vault               | 400    |
| Communications and Information Manager/     |        |
| Commander                                   | 140    |
| Information Systems Flight Chief            | 100    |
| Mission Systems Flight Chief                | 100    |
| Plans and Programs Flight Chief             | 100    |
| Base Radio Operations                       | 200    |
| Training                                    | 400    |
| Administration and files                    | 300    |
| Base Telephone Switchboard                  | 180    |
| Comm - Computer Radio Maintenance           | 400    |
| Comm - Computer Telephone Maintenance       | 400    |
| Comm - Computer Maintenance Equipment       |        |
| Storage                                     | 150    |
| Comm - Computer PC Maintenance              | 200    |
| Storage & Supply Room (Computer receiving   |        |
| and turn-in)                                | 500    |
| Network Vulnerability & Configuration       |        |
| Management (AFNetOps)                       | 120    |
| Break Area                                  | 200    |
| Base Test Facility                          | 250    |
| Switchboard Operator                        | 140    |
| ATCALS Maintenance                          | 400    |
| IM Personnel (work space for 15 TRs @ 40 SF |        |
| each)                                       | 600    |
| Mail Room                                   | 360    |
| Records Center Storage                      | 200    |
| Electronic Pubs/Forms/FOIA Reading Room     | 200    |
| Subtotal (net)                              | 7,890  |
| Overhead Space (30%)                        | 2,370  |
| Communications/Electric (3%)                | 240    |
| Total (gross)                               | 10,500 |
|   |        |

6.3.1. **Information Systems Flight (Cat Code 131-111):** When the AFRC Wing is located on an Active Duty installation (tenant location) the Information Systems Flight provides communication and information systems support to the Reserve Wing or Group. This function (typically located within the Reserve Headquarters facility) is authorized a total of 1,200 square feet for all management, administrative, training, storage, and functional work space (including mail distribution and message centers).

6.3.2. Client Systems Technicians (CST) (Cat Code 131-111): AFRC Wings and Groups with full time CST positions are authorized 80 square feet for each dedicated position. Work

area may be within the individual Group facilities or consolidated within the communications squadron or information systems flight. Storage for computers is included in the communications squadron or information systems flight.

#### **OPERATIONAL FACILITIES**

**7.1.** Base Airfield Operations Management (Cat Code 141-453): This facility provides space for functions necessary for daily airfield operations and should be located near the main aircraft parking areas and runways. Airfield management function requires space for the airfield manager and administrative support staff, flight planning, flight plan filing, airfield condition chart, pilot briefing, aircrew lounge, supplies, map and chart storage, and communications and tool storage. Airfield Management/Base Operations facilities at Joint Air Reserve Bases use active duty requirements in AFH 32-1084. Airfield Management/Base Operations facilities at Joint Air Reserve Stations are authorized a total of 2,840 square feet for all included functions. Table 7.1 shows proposed space allocation for a base operations facility. There will be only one host operated base operations facility unless special circumstances exist.

|  | SCOPE         |
|--|---------------|
| DESCRIPTION                                | ( <b>SF</b> ) |
| Airfield Manager                           | 100           |
| Base Operations Staff (based on seven full |               |
| time staff)                                | 490           |
| Flight Planning                            | 400           |
| Flight Plan Filing – Ops Desk              | 200           |
| Pilot Briefing                             | 300           |
| Aircrew Lounge (Note 1)                    | 150           |
| Storage (Maps and Charts)                  | 200           |
| Secure Communications Storage (Crew        |               |
| Comm.)                                     | 150           |
| Tool Storage                               | 200           |
| Weather Office (See section 7.1.1)         | 650           |
| Subtotal (net)                             | 2,840         |
| Overhead Space (30%)                       | 850           |
| Communications/Electric (3%)               | 90            |
| Total (gross)                              | 3,780         |
| •    | 1 400         |

#### Table 7.1. Base Operations Facility.

**Note**: A distinguished visitors lounge and snack bar (not to exceed 400 square feet) may be included in the Base Operations facility if not otherwise available nearby.

7.1.1. **Weather Section.** The weather section is located within the Base Operations facility and includes space for the forecasting office, supervisor office, computer work stations, automated weather observation equipment, and aircrew briefing. The weather office should include windows that face the runway complex and have direct access to a point that provides a view of the runway and approach zones. A total of 650 square feet is authorized for the Weather Section.

**7.2. Air Traffic Control Facility (Cat Code 149-962):** This facility is necessary for safe and efficient conduct of flight operations. Use the Design Guide for Air Traffic Control Towers/

RAPCON (HQ AFCEE/DGA) and HQ AFFSA design requirements in accordance with AFI 32-1084.

**7.3. Command Post (Cat Code 141-461):** Each installation is authorized a single USAF Command Post facility. Command Posts for OPLAN 8010 tasked units are authorized an additional space for classroom, communications and security requirements. Table 7.2 shows proposed space allocation for a Command Post Facility at AFRC host installations. See notes accompanying Table for additional design criteria associated with Command Post facilities.

| DESCRIPTION                    | SCOPE<br>(SF) | SCOPE<br>(SF)<br>OPLAN<br>8010 |
|--------------------------------|---------------|--------------------------------|
| Officer In Charge (note 2)     | 120           | 120                            |
| Senior ART/Operational         | 100           | 100                            |
| Reports                        | 100           | 100                            |
| Superintendent                 | 70            | 70                             |
| NCOIC, SORTS and Training      | 140           | 140                            |
| Training Cab (note 3)          | 400           | 400                            |
| Console/Emergency Action       |               |                                |
| Cell (note 4)                  | 600           | 600                            |
| Battle Staff / CAT / ICC (note |               |                                |
| 5)                             | 900           | 900                            |
| Support Battle Staff           | 400           | 400                            |
| Latrine/Shower                 | 300           | 300                            |
| Administrative Support         | 120           | 120                            |
| Classroom                      | 0             | 400                            |
| Entrapment Area                | 0             | 40                             |
| Kitchen/Break Area             | 200           | 200                            |
| Subtotal (net)                 | 3,350         | 3,790                          |
| Overhead Space (30%)           | 1,000         | 1,130                          |
| Communications/Electric        | 100           | 260                            |
| Total (gross)                  | 4,450         | 5,180                          |

#### Table 7.2. Command Post.

#### **NOTES:**

1. The working area for a Command Post is based upon the functions to be performed and on the maximum number of persons required to perform those functions during anticipated peak workloads.

2. An area will be reserved for the Chief, Superintendent, and the administrative staff with adequate office space to accommodate the number of personnel and any equipment necessary to perform their day-to-day duties. Privacy and immediate access to the console area are key considerations for the administrative area.

3. The training section should have easy access to the console area to facilitate training and testing of C2 personnel.

4. Special attention should be made to ensure the Emergency Action (EA) controllers are provided a secure area to execute EA procedures. Emergency Action Message (EAM) formats may only be viewed by certified command post controllers, controller trainees, and the Crisis

Action Team Director. A means of restricting visibility by other personnel in the Battle Staff /Battle Staff Support and Command Post must be in place and used during EAM processing. If unit missions dictate that Top Secret discussion between controllers must take place, then a workable method must be in place to ensure that personnel without both a need to know and the proper clearance are restricted from hearing these conversations. Collocated command posts occupied by personnel with differing levels of clearances must ensure provisions are made to ensure protection of the classified material or equipment.

5. Crisis Action Team (CAT) / Installation Command Center (ICC) Area. To ensure a good cross flow of information, a collocated ICC area is highly desired. If not possible, secure communications must exist between the Command Post and the ICC to ensure effective coordination. The area should be sized to accommodate the ICC and all associated equipment requirements, but is at the discretion of the unit commander.

6. Wall and ceiling silencing materials or other means of noise reduction will be used in Command Posts to reduce noise level to a minimum. Raised flooring will be used to facilitate the addition of future communications systems.

7. All Command Posts must have a non-interruptible power supply. All facilities will be equipped with emergency lighting.

8. The facility that contains the Command Post must be designated as a USAF Restricted Area at the protection level equal to the highest protection level resources they support operationally. Entry control to the Command Post, associated equipment/communications rooms, and emergency generators are outlined in AFI 31-101, *The Air Force Installation Security Program,* as supplemented.

9. Command Post Facility Remodeling: Prior to construction, C2 managers will coordinate design/plans with the local Security Forces' Information Security and Physical Security sections, local Communications Squadrons EMSEC personnel and HQ AFRC/A3T to ensure compliance with guidelines.

**7.4. Crew Readiness (Aircrew Alert Facility) (Cat Code 141-459):** Units that require crew readiness facilities to meet <u>primary</u> mission requirements will use criteria established in AFH 32-1084. Dedicated facilities are not authorized for installations that have secondary mission statements requiring aircrew alert training. At these locations, temporary aircrew alert operations will be established in existing facility space as required to meet mission training and exercise requirements.

**7.5. Squadron Operations (Cat Code 141-753):** Each flying squadron requires a facility for planning, briefing, administration, storage, and critique of combat crews. Functions within this facility may include weapons and tactics, intelligence, briefing/debriefing, standardization and evaluation, flight planning, flying safety, flight records, physical training, scheduling, general training, and space for unit administration. Space is provided for storage of aircrew chemical warfare ensemble in the personal equipment area. Additional functions including, but not limited to, Aircrew Flight Equipment, Base Operations, Operations Support Squadron, Operations Group Command, and Wing Command Post may also be located in the Squadron Operations facility. Space authorizations for these additional functions are established separately within this handbook.

7.5.1. **Squadron Operations Facility.** Space authorization for the Squadron Operations facility is dependent on the type and number of weapons systems operated by the flying squadron. The authorizations shown in the following tables are established based on typical

squadrons. Space authorizations for unique weapons systems or mission configurations will be determined on a case-by-case basis. Tables 7.3 (airlift) and 7.4 (fighter) show space allocations for a Squadron Operations facility. Modification to these allocations will be necessary to accommodate unique functions associated with individual weapons systems, but should be accomplished within the limits of the total authorized facility space standard. Squadron Operations facilities for fighter units should be constructed to JAFAN 6/9 standards as a Special Access Program Facility (SAPF) accredited work area. Intelligence flights require access to a DCID 6/9 accredited Sensitive Compartmented Information Facility (SCIF) work area.

| - •                          | •            |              |              |             | A 11.4. 1           |             | A 1 1*4   |
|------------------------------|--------------|--------------|--------------|-------------|---------------------|-------------|-----------|
|                              |              |              |              | AEDC        | Additional          | AEDC        | Additi    |
|                              | CODE         | CODE         | CODE         | AFRC        | Co-                 | AFRC        | Co-       |
|                              | SCOPE        | SCOPE        | SCOPE        | Associate   | located             | Associate   | locate    |
| DESCRIPTION                  | SF<br>(PDAA) | SF (12       | SF (16       | Airlift     | Airlift<br>Savadaan | Tanker      | Tanke     |
| DESCRIPTION                  | (8PAA)       | <b>PAA</b> ) | <b>PAA</b> ) | (note 3)    | Squadron 200        | (note 3)    | Squad     |
| Commander                    | 200          | 200          | 200          | 200         | 200                 | 200         | 200       |
| First Sergeant               | 120          | 120          | 120          | 120         | 120                 | 120         | 120       |
| Executive Officer            | 70           | 70           | 70           | 70          | 70                  | 70          | 70        |
| Ops Officer (O&T)            | 70           | 70           | 70           | 70          | 70                  | 70          | 70        |
| Squadron Administration      | 100          | 100          | 100          | 100         | 100                 | 100         | 100       |
| Aircrew Briefing             | 1,000        | 1,500        | 2,000        | 1000        | 300                 | 1000        | 300       |
| Conference                   | 200          | 200          | 200          | 200         | 200                 | 200         | 200       |
| Orderly Room                 | 400          | 600          | 800          | 400         | 400                 | 400         | 400       |
| CAT Room (if not in Command  | 300          | 300          | 300          | 300         | 0                   | 0           | 0         |
| Post)                        | 300          | 300          | 300          | 300         | 0                   | 0           | 0         |
| Intelligence Work / Storage  | (00          | 000          | 1200         | <b>C</b> 00 | 0                   | <b>C</b> 00 | 0         |
| Area (Note 1)                | 600          | 900          | 1200         | 600         | 0                   | 600         | 0         |
| Records/Data Management      | 120          | 120          | 120          | 120         | 0                   | 0           | 0         |
| Scheduling/Current Ops       | 200          | 300          | 400          | 200         | 0                   | 200         | 0         |
| Safety                       | 70           | 70           | 70           | 70          | 0                   | 0           | 0         |
| Mission Planning             | 700          | 1050         | 1400         | 700         | 0                   | 700         | 0         |
| Tactics                      | 250          | 380          | 500          | 250         | 250                 | 250         | 250       |
| Standards/Evaluation         | 300          | 450          | 600          | 300         | 300                 | 300         | 300       |
| Training                     | 200          | 300          | 400          | 200         | 200                 | 200         | 200       |
| Testing (secure space for    |              |              |              |             |                     |             |           |
| classified testing)          | 150          | 300          | 450          | 150         | 150                 | 150         | 150       |
| Operational Plans            | 200          | 300          | 400          | 200         | 200                 | 200         | 200       |
| Chief Engineer               | 200<br>70    | 70           | 70           | 200<br>70   | 200<br>70           | 200<br>70   | 200<br>70 |
| Flight Engineering work room | 300          | 450          | 600          | 300         | 300                 | 300         | 300       |
| Chief Loadmaster             | 300<br>70    | 430<br>70    | 70           | 300<br>70   | 0                   | 0           | 0         |
|                              | 300          | 70<br>450    | 70<br>600    | 0           | 0                   |             | 0         |
| Loadmasters work room        |              |              |              | -           |                     | 0           |           |
| Chief Navigator              | 70           | 70           | 70           | 70          | 0                   | 0           | 0         |
| Navigators work room         | 300          | 450          | 600<br>70    | 0           | 0                   | 0           | 0         |
| Chief Pilot                  | 70           | 70           | 70           | 70          | 70                  | 70          | 70        |
| Pilots work room             | 300          | 450          | 600          | 300         | 300                 | 300         | 300       |
|                              |              |              |              |             |                     |             |           |

#### Table 7.3. Squadron Operations Facility – Airlift/Tanker.

| Mobility Storage                                      | 400    | 600    | 800    | 400    | 400   | 400    | 400   |
|---|--------|--------|--------|--------|-------|--------|-------|
| Mobility Training Ensemble                            | 400    | 600    | 800    | 400    | 400   | 400    | 400   |
| Storage (Note 2)<br>Aircrew Lounge                    | 400    | 600    | 800    | 400    | 400   | 400    | 400   |
| Computer Room/Training                                | 800    | 1200   | 1600   | 0      | 0     | 0      | 0     |
| Rooms   |        |        |        | -      | -     |        |       |
| Risk Management / AFSO 21<br>Men's and Women's Locker | 400    | 600    | 800    | 400    | 400   | 400    | 400   |
| Room/Shower   | 1,300  | 1,950  | 2,600  | 1,300  | 700   | 1,300  | 700   |
| Fitness/Ergo Room                                     | 400    | 600    | 800    | 400    | 0     | 400    | 0     |
| Subtotal (net)  | 10,830 | 15,560 | 20,280 | 9,430  | 5,600 | 8,800  | 5,600 |
| Overhead Space (30%)                                  | 3,250  | 4,670  | 6,080  | 2,830  | 1,680 | 2,640  | 1,680 |
| Communications/Electric (3%)                          | 330    | 470    | 610    | 280    | 170   | 260    | 170   |
| Total (gross)   | 14,410 | 20,700 | 26,970 | 12,540 | 7,450 | 11,700 | 7,450 |
|   |        |        |        |        |       |        |       |

#### **NOTES:**

1. Intelligence work area must be secure and capable of open storage at the collateral level.

**2.** This is an estimate only. Design to requirements based on actual number of mobility positions. Estimate 5 SF per authorized mobility position.

**3.** Associate squadrons authorization represents AFRC sole-use space required when Reserve squadron is associated with active duty counterpart. Additional Squadron authorization represents additive space required for second co-located AFRC squadron at either host or tenant operating locations.

#### SCOPE **SCOPE SCOPE** SF SF SF **AFRC** (32)(16 (24)Associate **DESCRIPTION** PAA) PAA) PAA) Fighter Squadron Commander First Sergeant Administration Orderly Room Flight Commanders Offices Aircrew Briefing **Mission Planning** Flight Management (Ops Office) Chief Ops Plans **Operations/Plans Staff** Intelligence (note) Intel Office SIPRNET Area MPC M&C **Briefing Room** Study/Library **Ops** Training

#### Table 7.4. Squadron Operations – Fighters.

| Standard/Evaluation            | 300    | 400    | 500    | 0     |
|--------------------------------|--------|--------|--------|-------|
| Flight Briefing Rooms (5)      | 700    | 1120   | 1680   | 0     |
| Risk Management / AFSO 21      | 400    | 640    | 960    | 400   |
| Operations Officer             | 100    | 100    | 100    | 100   |
| EWO                            | 80     | 80     | 80     | 80    |
| Testing Room (secure space for |        |        |        |       |
| classified testing)            | 100    | 200    | 200    | 0     |
| Simulator Training (MTT)       | 400    | 640    | 960    | 0     |
| Weapons and Tactics            | 300    | 480    | 720    | 300   |
| Aircrew Lounge                 | 500    | 800    | 1200   | 400   |
| Storage (Mobility)             | 400    | 640    | 960    | 400   |
| Physical Fitness Room          | 600    | 960    | 1440   | 0     |
| Men's Latrine/Showers/Lockers  | 700    | 1120   | 1680   | 400   |
| Women's                        |        |        |        |       |
| Latrine/Showers/Lockers        | 300    | 480    | 720    | 300   |
| Subtotal (net)                 | 10,260 | 15,000 | 21,100 | 5,480 |
| Overhead Space (30%)           | 3,080  | 4,500  | 6,330  | 1,640 |
| Communications/Electric (3%)   | 310    | 450    | 630    | 160   |
| Total (gross)                  | 13,650 | 19,950 | 28,060 | 7,280 |
|                                |        | -      |        |       |

**NOTE:** Intelligence function office and work area must be secure at the compartmentalized level.

7.5.2. **Guardian Angel Operations (Cat Code 141-454):** Facility provides administrative, training, storage, and functional work space for personnel assigned to the Guardian Angel squadron. Total authorization for this facility is 35,030 square feet. An additional 16,200 square feet of covered secure unconditioned storage space is authorized for storage of squadron training and mobility equipment. Table 7.5 shows space allocation for a Guardian Angel Squadron.

#### Table 7.5. Guardian Angel Squadron Operations.

| DESCRIPTION                      | SCOPE<br>(SF) | Notes                |
|----------------------------------|---------------|----------------------|
| Command Section:                 |               |                      |
| Commander                        | 200           |                      |
| PJ Chief (NCOIC)                 | 140           | 1 NCOIC and 1<br>TR  |
| Ed & Training Specialist         | 70            |                      |
| Orderly Room                     | 300           |                      |
| Conference Room                  | 300           | Seats 12 individuals |
| Admin Storage                    | 200           | Files & storage      |
| First Sergeant                   | 120           |                      |
| Receptionist                     | 70            |                      |
| <b>Operations Section</b>        |               |                      |
| Operations Chief                 | 100           |                      |
| <b>Operations Management</b>     | 70            |                      |
| <b>Operations Superintendent</b> | 70            |                      |

| Scheduling (DOS) ARMS<br>Operations Training Office<br>Plans / Tactics (DOX)<br>Standardization Evaluation<br>(Stan/Eval)<br>SERE Instructors<br>Aircrew Flight Equipment<br>Maintenance/Storage | 180<br>40<br>40<br>180<br>220<br>3,000 |                         |
|--|--|-------------------------|
| Brief / Debrief / Planning rooms   | 975                                    | Seats 50<br>individuals |
| Administrative Storage/Files <b>Flights</b>  | 200                                    | marviduus               |
| Alpha Flight Commander   | 140                                    | 1 AGR and 1 TR          |
| Alpha Flight Assistant<br>Commander  | 80                                     | 2 TR                    |
| Alpha Flight NCOIC   | 140                                    | 1 NCOIC and 1<br>TR     |
| Alpha Flight Work Area   | 600                                    | 15 TR                   |
| Bravo Flight Commander<br>Bravo Flight Assistant   | 140                                    | 1 AGR and 1 TR          |
| Commander  | 80                                     | 2 TR                    |
| Bravo Flight NCOIC   | 140                                    | 1 NCOIC and 1<br>TR     |
| Bravo Flight Work Area   | 600                                    | 15 TR                   |
| Charlie Flight Commander<br>Charlie Flight Assistant   | 140                                    | 1 AGR and 1 TR          |
| Commander  | 80                                     | 2 TR                    |
| Charlie Flight NCOIC   | 140                                    | 1 NCOIC and 1<br>TR     |
| Charlie Flight Work Area   | 600                                    | 15 TR                   |
| Operator Individual Storage<br>Lockers   | 3,360                                  | 7X8 for 60 operators    |
| IDMT with training   | 110                                    | operators               |
| Special Medical Training   | 300                                    |                         |
| Controlled Substance Storage<br>Medical Records Storage/Flight   | 50                                     |                         |
| Files  | 200                                    |                         |
| Flight Surgeon   | 40                                     |                         |
| Medical Supplies / Storage<br>General/Shared Space   | 980                                    |                         |
| Classroom(s)   | 900                                    |                         |
| Dining/Kitchen /Break  | 390                                    |                         |
| Supplies Storage/Supply Office<br>Alert Equipment Storage  | 2,080<br>800                           |                         |
| Equipment Staging/Mission  |  |                         |
| Build-up   | 600                                    |                         |
|  |  |                         |

| 7,835  |
|--------|
| 160    |
| 1,090  |
| 650    |
| 900    |
| 180    |
| 600    |
|        |
| 100    |
| 100    |
| 110    |
| 110    |
| 100    |
| 110    |
| 190    |
| 110    |
| 800    |
| 110    |
| 200    |
| 400    |
| 660    |
| 110    |
| 650    |
| 770    |
| 35,030 |
| 10,510 |
| 1,050  |
| 46,590 |
|        |

#### **NOTES:**

 Provide 16,200 SF of separate secured unconditioned space for mobility/training equipment storage (ATVs, Zodiacs, boats and trailers, motorcycles, rescue craft, and ISU 90s).
 Do not duplicate space with other Group / Wing functions if work is accomplished in other facilities.

7.5.3. **Space Operations Squadron (Cat Code 141-753):** Facility provides administrative and training space for personnel assigned to the AFRC associate Space Operations Squadron. AFRC associate Space Operation Squadrons perform mission activities in Active Duty facilities but require dedicated training and administrative space for AFRC unique functions. Total authorization for this facility is 6,990 square feet. Squadron Operations facilities for Space Operations units should be constructed to JAFAN 6/9 Special Access Program Facility (SAPF) standards. Intelligence flights require access to a DCID 6/9 accredited Sensitive

Compartmented Information Facility (SCIF) work area. Table 7.6 shows proposed space allocation for an associate Space Squadron.

| DESCRIPTION               | Standard<br>(SF) | SCOPE<br>Small<br>(SF) | 2nd<br>Squadron<br>(SF) |
|---------------------------|------------------|------------------------|-------------------------|
| Squadron Commander        | 200              | 200                    | 200                     |
| First Sergeant            | 120              | 120                    | 120                     |
| Administration            | 100              | 100                    | 100                     |
| Orderly Room              | 300              | 200                    | 200                     |
| Training/Briefing         | 900              | 600                    |                         |
| Operations Officer        | 70               | 70                     | 70                      |
| Superintendent            | 100              | 100                    | 100                     |
| Intelligence Surveillance |                  |                        |                         |
| & Recon (ISR)             | 400              | 300                    | 300                     |
| Combat Operations         | 400              | 300                    | 300                     |
| Mission Support           | 400              | 300                    | 300                     |
| Ops Training              | 400              | 300                    | 200                     |
| Standard/Evaluation       | 400              | 300                    | 200                     |
| Testing Room              | 100              | 100                    | 0                       |
| Special Tactics           | 400              | 0                      | 0                       |
| Combat Plans              | 400              | 0                      | 0                       |
| Strategy                  | 400              | 0                      | 0                       |
| Computer Lab              | 400              | 400                    | 0                       |
| Lounge                    | 500              | 250                    | 100                     |
| Men's                     |                  |                        |                         |
| Latrine/Showers/Lockers   | 500              | 300                    | 100                     |
| Women's                   |                  |                        |                         |
| Latrine/Showers/Lockers   | 500              | 300                    | 100                     |
| Subtotal (net)            | 6,990            | 4,240                  | 2,390                   |
| Overhead (30%)            | 2,100            | 1,270                  | 720                     |
| Communications/Electrical |                  |                        |                         |
| (3%)                      | 210              | 130                    | 70                      |
| Total (gross)             | 9,300            | 5,640                  | 3,180                   |
| 1 .1 .1 1                 | 1 4 7            |                        | 1                       |

Table 7.6. Associate Space / UAV Squadron.

*NOTE:* Small squadrons are those with less than 45 personnel assigned.

7.5.4. Unmanned Aerial Vehicle (UAV) Squadron Operations (Cat Code 141-753): Facility provides administrative and training space for personnel assigned to the UAV Squadron. AFRC associate UAV Squadrons perform mission activities in Active Duty facilities but require dedicated training and administrative space for AFRC unique functions. Squadron Operations facilities for UAV units should be constructed to JAFAN 6/9 Special Access Program Facility (SAPF) standards. Intelligence flights require access to a DCID 6/9 accredited Sensitive Compartmented Information Facility (SCIF) work area. Total authorization for this facility is 6,990 square feet. Table 7.6 shows proposed space allocation for an associate UAV Squadron. 7.5.5. **Reserve Forces Aeromedical Evacuation Training Facility (Cat Code 171-449):** In general, Aeromedical Evacuation Squadrons (AES) train to perform in-flight patient care, command and control, and operational support for the joint patient movement mission. This facility provides space for training and operations of aeromedical evacuation (AE) units. AES located at AFRC installations and at Tennant locations are authorized 8,770 square feet for all administrative and training functions as well as 1,170 square feet (gross) for mobility or contingency equipment storage, including storage of medical, operations and communications equipment assemblages. Additional space is authorized for assigned crews as detailed in Table 7.7

| DESCRIPTION                           | SCOPE<br>(SF) |
|---------------------------------------|---------------|
|                                       | 8 Crews       |
| Commander                             | 200           |
| Deputy or Executive Officer           | 120           |
| 1 <sup>st</sup> Sergeant              | 120           |
| Administrative / Orderly Room         | 450           |
| Conference Room                       | 200           |
| Chief of Operations                   | 100           |
| Operations Management                 | 300           |
| Stan Eval                             | 140           |
| Scheduling                            | 140           |
| Chief Nurse                           | 100           |
| SARM                                  | 70            |
| Classroom (150SF per assigned crew)   | 1,200         |
| UTC Managers (70SF per assigned crew) | 560           |
| Mission Planning / Crew Briefing      | 700           |
| In-flight Medical Care Staff          | 300           |
| Aircrew Training                      | 200           |
| Secure Medical Supplies               | 80            |
| Medical Equipment Storage             | 900           |
| Medical Equipment Lab / Maintenance   | 300           |
| Chemical Ensemble Storage             | 200           |
| Stan Eval Testing                     | 100           |
| Computer Based Training               | 400           |
| Staff Development                     | 140           |
| CDC Training                          | 150           |
| Medical Readiness and                 | 300           |
| Intel/Mobility/DP/Ancillary Training  |               |
| Men's and Women's Locker Room /       | 1,300         |
| Shower                                |               |
| Subtotal (net)                        | 8,770         |
| Overhead (30%)                        | 2,630         |
| Communications/electrical (3%)        | 260           |
| Total (gross)                         | 11,660        |

 Table 7.7. Aeromedical Evacuation Squadrons.

*NOTE:* Add 1,170 square feet for mobility and contingency equipment storage.

7.5.5.1. Variation in space authorization for AES will be reviewed and validated on a case-by-case basis by HQ AFRC/A3TM. Additions of various combinations of AE crews, communications, system support, ground command and control (C2) should drive authorized facility space increases commensurate with the number/volume of these UTCs

7.5.5.2. Increase Aircrew Flight Equipment (section 7.6) storage authorization by 3 square feet (net) for each flying crew member assigned to AES.

**7.6.** Aircrew Flight Equipment (Cat Code 218-852): The Aircrew Flight Equipment (AFE) (formerly Life Support and Survival Equipment) function may be located within the Squadron Operations facility or as a separate facility. The AFE organizational structure generally consists of an AFE Officer, AFE Superintendent, and Aircrew, Operations and Aircraft Support sections. Space authorization is dependent on the number of assigned flying aircrew members supported. Additional consideration must also be given to the type and number of weapons systems supported and any associated specialized equipment and training requirements.

7.6.1. The AFE function is authorized the approximate square footage of workshop space (based on a standard 8 PAA squadron {21/24 PAA for fighter squadrons}), as shown in **Table 7.8** Requirements are based on mission support for aircrew training/classroom space, supported aircrew equipment storage, night vision device storage/maintenance/testing, equipment inspection/maintenance, mobility operations, and administrative space.

7.6.2. For flying personnel equipment storage (primary MDS, Aeromedical, Flight Surgeon, Combat Camera, etc. aircrew), 3 square feet per supported position is authorized.

7.6.3. An additional 500 square feet is authorized for egress shop space at fighter equipped units.

7.6.4. HC-130/MC-130 units are authorized an additional 1,400 square feet for Crew Storage Space.

7.6.5. If a parachute drying tower is required, and additional 900 square feet is authorized.

7.6.6. Units co-located on the same installation with multiple MDSs should combine facility requirements.

7.6.7. Increase in space authorizations for unique weapons systems, mission configurations, or increased PAA will be determined proportionately on a case-by-case basis.

| <b>Table 7.8.</b> | Aircrew | Flight | Equipment | Facility | <b>Requirement.</b> |
|-------------------|---------|--------|-----------|----------|---------------------|
|-------------------|---------|--------|-----------|----------|---------------------|

| FUNCTION                             | SCOPE    | ( <b>SF</b> ) |       |               |       |       |            |       |                |            |
|--------------------------------------|----------|---------------|-------|---------------|-------|-------|------------|-------|----------------|------------|
|                                      | Fighters | B-52          | C-5   | C-9 /<br>C-40 | C-17  | C-130 | КС-<br>135 | HH-60 | Flight<br>Test | Gua<br>Ang |
| Administration (Note 1)              | 500      | 500           | 600   | 500           | 600   | 500   | 500        | 500   | 300            | 300        |
| Aircrew Support Section (Note 2)     | 2,300    | 800           | 1,000 | 20            | 2,000 | 1,500 | 2,200      | 500   | 800            | 700        |
| Aircraft Support Section (Note 3)    | 800      | 4,000         | 6,000 | 1,100         | 7,000 | 5,000 | 3,500      | 500   | 2,000          | 3,00       |
| Continuation / Classroom<br>Training | 1,000    | 1,000         | 1,000 | 1,000         | 1,000 | 1,000 | 1,000      | 1,000 | 1,000          | 1,00       |

| Night Vision Devices           | 300   | 300   | N/A    | N/A   | 300    | 300    | N/A   | 300   | N/A   | 300  |
|--------------------------------|-------|-------|--------|-------|--------|--------|-------|-------|-------|------|
| Washer/Dryer Room              | 100   | 100   | 100    | 100   | 100    | 100    | 100   | 100   | 100   | 100  |
| Mobility Storage (Note 4)      |       |       |        |       |        |        |       |       |       |      |
| Subtotal (net)                 | 5,000 | 6,700 | 8,700  | 2,900 | 11,000 | 8,400  | 7,300 | 2,900 | 4,200 | 5,40 |
| Overhead (30%)                 | 1,500 | 2,010 | 2,610  | 870   | 3,300  | 2,520  | 2,190 | 870   | 1,260 | 1,62 |
| Communications/electrical (3%) | 150   | 200   | 260    | 90    | 330    | 250    | 220   | 90    | 130   | 160  |
| Total (gross)                  | 6,650 | 8,910 | 11,570 | 3,860 | 14,630 | 11,170 | 9,710 | 3,860 | 5,590 | 7,18 |
|                                |       |       |        |       |        |        |       |       |       |      |

#### NOTES:

1: Includes AFEO office, Supt office, section supervisor offices, and admin functions/storage.

**2:** Includes inspection, maintenance, storage of helmets, oxygen masks, aircrew chemical defense equipment, Mil-G goggles/ALEP, anti-g suits, anti-exposure suits, survival vests, body armor, torso harnesses, HEEDS/HEBD/SEA, weapons receipt/issue, tester workspace/storage and bench stock/supply storage, and "light" sewing/fabric room

**3:** Includes inspection, testing, repack, maintenance and storage of personnel parachutes, ACESII ejection seat integrated personnel/drogue chutes, cargo parachutes, deceleration (Drag) parachutes, escape slides (C-5 & KC-135), PLZT/Mil-G Goggles/ALEP, thermal curtains, 46-person rafts (C-17 - 3 per aircraft), 25-person rafts (C-5 - 4 per aircraft), 20-person rafts (KC-135 - 3 per aircraft/C-130 - 4 per aircraft), 1-person rafts , life preservers, survival kits/vests, body armor, comm devices (radios/beacons), security operations (safe/weapons), flightline operations, long term storage & staging of equip, anti-exposure suits, PCK, EPOS, EEBDs, restraint harnesses, sea rescue kits, tester workspace/storage and bench stock/supply storage, "heavy" sewing/fabric room. Also includes packing tables for personnel parachutes (2 @ 5' x 50' = 250 sf each) and drag chutes (2 @ 5' x 100' = 500 sf each).

**4:** Include 200 sq ft per mobility pallet supported for inventory, inspection and storage to support assigned UTCs.

**5:** If Guardian Angel units are co-located on the same installation with HH-60 or C-130 units, requirements should be combined.

**6:** Add Flying Personnel Equipment Storage as quantified in paragraph 7.6.2 above.

**7.7. Tanker/Airlift Control Flight (ALCF) (Cat Code 171-445):** ALCF units are authorized a total 8,180 square feet for all administrative, training, storage, and functional work space as shown in **Table 7.9**. Facilities should include high bay storage areas in order to facilitate vertical storage of mobility equipment to the maximum extent possible.

|                                      | SCOPE       |
|--------------------------------------|-------------|
| DESCRIPTION                          | <b>(SF)</b> |
| Commander                            | 100         |
| Senior ART                           | 70          |
| Superintendent                       | 100         |
| Administration / work stations       | 2,000       |
| Classroom                            | 1,000       |
| Communications Work Area/Storage (SI | PR) 200     |
| Mobility Storage                     | 210         |
| High Bay Pallet Storage              | 2,500       |

#### Table 7.9. Tanker/Airlift Control Flight.

| Locker Rooms                   | 600    |
|--------------------------------|--------|
| Vehicle Garage                 | 1,400  |
| Subtotal (net)                 | 8,180  |
| Overhead (30%)                 | 2,450  |
| Communications/Electrical (3%) | 250    |
| Total (gross)                  | 10,880 |

7.7.1. Additional mobility storage space is required for UTC equipment items that may be assigned to the ALCF unit. The following additional authorizations (net) are approved for specific UTC packages.

## Table 7.10. ALCF UTC Packages.

| UTC   | SCOPE         |
|-------|---------------|
|       | ( <b>SF</b> ) |
| 7E1CA | 2,500         |
| 7E1CB | 1,000         |
| 7E1AF | 1,000         |
| 7E1AB | 800           |
| 7E1AE | 1,500         |

**7.8. Information Operations Flight (Cat Code 610-243):** Information Operations Flights require facilities for classified processing, unclassified work, storage of classified and unclassified materials. Determine facility requirements using Table 7.11.

## Table 7.11. Information Operations Flight.

|   | SCOPE            |
|---|------------------|
| DESCRIPTION   | ( <b>SF</b> )    |
| Electronic System Security Assessment Center (ESSAC   | C) 2,200         |
| Secure Storage/electronics maintenance work area      | 1,500            |
| Break room  | 150              |
| Research/library                                      | 150              |
| Secure Storage  | 200              |
| Determine office space by number of assigned personne | el See table 2.1 |

**7.9. Air Mobility Operations (Cat Code 141-753):** The Air Mobility Operations Squadron (AMOS) provides Air Force Reserve staff and expertise to Air Mobility Command in the Air and Space Operations Center. AFRC AMOS are authorized a total of 4,820 square feet for all sole-use administrative and training space. Table 7.12 shows proposed space allocation for an Air Mobility Operations Squadron.

## Table 7.12. Air Mobility Operations Squadron.

|                | SCOPE         |
|----------------|---------------|
| DESCRIPTION    | ( <b>SF</b> ) |
| Commander      | 200           |
| Senior ART     | 70            |
| Superintendent | 100           |

| Administrative / Mission Operations      | 1,500  |
|--|--------|
| Classroom                                | 300    |
| Traditional Reservists Work Area (43 TRs | )1,720 |
| Full-time ART offices (3)                | 210    |
| Mobility Storage                         | 120    |
| Locker Rooms                             | 600    |
| Subtotal (net)                           | 4,820  |
| Overhead (30%)                           | 1,450  |
| Communications/Electrical (3%)           | 140    |
| Total (gross)                            | 6,410  |

**7.10.** Survival Evasion Resistance and Escape (SERE) Instructors (Cat Code 141-753): Instructors are authorized a total of 1,090 square feet of all administrative and equipment storage space when present at AFRC flying units. Table 7.13 shows proposed space allocation for SERE instructors

 Table 7.13.
 SERE Instructors.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| SIPR capable office area       | 200           |
| Files                          | 20            |
| Locker space                   | 200           |
| Medical support equipment      | 100           |
| Break area                     | 50            |
| Supply Storage                 | 30            |
| Parachute Storage              | 30            |
| Wet / Dry Room                 | 60            |
| Locker Room / Shower           | 400           |
| Subtotal (net)                 | 1,090         |
| Overhead (30%)                 | 330           |
| Communications/Electrical (3%) | 30            |
| Total (gross)                  | 1,450         |

**7.11. Intelligence Squadrons (Cat Code 141-454):** Intelligence Squadron is authorized space for all administrative, training and storage requirements. Intelligence Squadron space must be a DCID 6/9 accredited Sensitive Compartmented Information Facility (SCIF) area that allows for open storage of classified material. Table 7.14 shows proposed space allocation for Intelligence Squadrons. Table 7.15 shows proposed space allocation for subordinate Intelligence Flights.

|                        | SCOPE<br>SF | SCOPE<br>SF | SCOPE<br>SF | SCOPE<br>SF |
|------------------------|-------------|-------------|-------------|-------------|
| DESCRIPTION            | (3 Flts)    | (4 Flts)    | (5 Flts)    | (6 Flts)    |
| Squadron Commander     | 200         | 200         | 200         | 200         |
| Director of Operations | 100         | 100         | 100         | 100         |
| Superintendent         | 100         | 100         | 100         | 100         |

| NCOIC Intel Training         | 100      | 100                                | 100   | 100   |  |
|------------------------------|----------|------------------------------------|-------|-------|--|
| First Sergeant               | 120      | 120                                | 120   | 120   |  |
| Administration               | 100      | 100                                | 100   | 100   |  |
| Orderly Room                 | 300      | 480                                | 720   | 1,080 |  |
| Squadron Conference Room     | 200      | 200                                | 200   | 200   |  |
| Flight Commanders Offices    | 300      | 400                                | 500   | 600   |  |
| Flight NCOICs                | 210      | 280                                | 350   | 420   |  |
| Reservists Work Areas (40SF  | Add spa  | Add space for number of Reservists |       |       |  |
| each)                        | assigned | 1                                  |       |       |  |
| Education / Training Room    | 300      | 300                                | 300   | 300   |  |
| VTC Conference Room          | 300      | 300                                | 300   | 300   |  |
| Subtotal (net)               | 2,330    | 2,680                              | 3,090 | 3,620 |  |
| Overhead Space (30%)         | 700      | 800                                | 930   | 1,090 |  |
| Communications/Electric (3%) | 70       | 80                                 | 90    | 110   |  |
| Total (gross)                | 3,100    | 3,560                              | 4,110 | 4,820 |  |

# Table 7.15. Intelligence Flights.

|  | <b>SCOPESCOPE SCOPE</b> |               |               |               |
|--|-------------------------|---------------|---------------|---------------|
|  | ( <b>SF</b> )           | ( <b>SF</b> ) | ( <b>SF</b> ) | SCOPE         |
|  | AOC                     | AFFOR         | RPA           | ( <b>SF</b> ) |
| DESCRIPTION                              | (ISRD)                  |               |               | SPACE         |
| Flight Commander                         | 100                     | 100           | 100           | 100           |
| Director of Operations / Asst. Commander | :100                    | 100           | 100           | 100           |
| Superintendent                           | 100                     | 100           | 100           | 100           |
| NCOIC Intel Training                     | 100                     | 100           | 100           | 100           |
| Section OICs (100SF each)                | 200                     | 100           | 200           | 200           |
| Reservists Work Areas (40SF each)        | 1200                    | 560           | 880           | 1200          |
| Education / Training Room                | 300                     | 150           | 300           | 300           |
| VTC Conference Room                      | 300                     | 300           | 300           | 300           |
| Subtotal (net)                           | 2,500                   | 1,510         | 2,180         | 2,500         |
| Overhead (30%)                           | 750                     | 450           | 650           | 750           |
| Communications/Electrical (3%)           | 80                      | 50            | 70            | 80            |
| Total (gross)                            | 3,330                   | 2,010         | 2,900         | 3,330         |

*NOTE*: Deployable Ground Station (DGS) flights share space with Active Duty associates due to 24 hour operations.

## **Chapter 8**

## TRAINING FACILITIES

**8.1. Basic Item, Reserves Forces General Training Support.** These facilities support various AFRC non-flying units including, but not limited to, Medical Squadrons, Aeromedical Staging Squadrons, Combat Logistics Support Squadrons, Communications Flights, and Security Police Flights. Space within these facilities includes office and administrative areas, administrative support space, classrooms, and lockers. Determine additional space requirements separately for additional mobility equipment storage, training mockups, work areas, or other requirements unique to a particular unit.

**8.2. Communication Squadron (Cat Code 171-443):** Deployable communications squadrons are authorized a total of 3,390 square feet for administrative, training, storage, and maintenance functions. **Table 8.1** shows proposed space allocation for a communications squadron facility. This unit may be co-located with the Communications and Information Facility (section 6.3) at AFRC host base locations.

| SCOPE         |
|---------------|
| ( <b>SF</b> ) |
| 200           |
| 70            |
| 120           |
| 300           |
| 300           |
| 400           |
| 300           |
| 600           |
| 800           |
| 300           |
| 3,390         |
| 1,020         |
| 100           |
| 4,510         |
|               |

#### Table 8.1. Communications Squadron.

*Note*: Includes 300 square feet for Joint Incident Site Communications Capability (JISCC) equipment storage. JISCC equipment maintained at AFRC host bases only.

**8.3.** Security Forces Squadron at Tenant Bases (Cat Code 171-443): AFRC Security Forces Squadrons located on Active Duty installations (tenant locations) are authorized a total of 6,640 square feet for all administrative, training, storage, and functional work space. Authorization for unit specific mobility storage may be determined on a case-by-case basis. Table 8.2 shows proposed space allocation for a SFS at a tenant location.

## Table 8.2. Security Forces Squadron (Tenant Location).

SCOPE (SF)

| DESCRIPTION                          |       |
|--------------------------------------|-------|
| Chief, Security Forces/Commander     | 200   |
| (CSF/CC)                             |       |
| First Sergeant                       | 120   |
| Security Forces                      | 70    |
| Manager/Superintendent               |       |
| Orderly Room/Administration          | 300   |
| Air Reserve Technician (2 @ 70)      | 140   |
| Career Advisor/Safety/Historian/DP   | 70    |
| Classroom (Partitioned)              | 900   |
| Training NCO/Instructors             | 240   |
| Quality Control (100 SF test area +  | 180   |
| 2 @ 40 SF)                           |       |
| Unit Learning Center (ULC)           | 150   |
| Squad Leaders' Room (3 @ 70 SF)      | 210   |
| Fire Team Leaders' Room (3 @ 70      | 210   |
| SF)                                  |       |
| Mobility Storage/Pallets/Build-up (4 | 2800  |
| @ 700 SF/UTC)                        |       |
| Mobility/Supply Administrative       | 200   |
| Area                                 |       |
| Control Center (CSC/LED/GDOC)        | 100   |
| Training Area                        |       |
| General Storage                      | 150   |
| Break Room                           | 150   |
| Men's Locker Room                    | 300   |
| Women's Locker Room                  | 150   |
| Subtotal (net)                       | 6,640 |
| Overhead Space (20%)                 | 1,990 |
| Communications/Electric (3%)         | 200   |
| Total (gross)                        | 8,830 |
|                                      |       |

8.3.1. **Combat Arms Training (Cat Code 171-476):** This facility supports the activities of a combat arms section at AFRC locations. It contains space for classroom instruction; program administration, weapons maintenance; weapons cleaning and degreasing; alarmed weapons and ammunition storage; latrine facilities and miscellaneous storage. The facility may be equipped with either the Combat Arms Training Simulator (CATS) or the Squad Engagement Training Simulator (SETS) although neither of these systems is required to meet training standards. The standard training facility (range) supports up to 21 firing points. **Table 8.3** shows proposed space allocation for a Combat Arms Training Facility.

| DESCRIPTION                         | SCOPE (SF)<br>CATS |
|-------------------------------------|--------------------|
| Classroom (note 1)                  | 975                |
| NCOIC                               | 100                |
| Instructor's Offices (70 SF/Auth CA | 700                |
| Instructor)                         |                    |
| Weapons Maintenance Shop            | 300                |
| Weapons Cleaning/Degreasing Room    | 250                |
| (note 2)                            |                    |
| Alarmed Weapons and Ammunition      | 150                |
| Storage Room                        |                    |
| Miscellaneous Storage               | 120                |
| Small Arms Training Range (note 3)  | 16,940             |
| Men's Locker Room/Shower            | 175                |
| Women's Locker Room/Shower          | 140                |
| Breakroom                           | 150                |
| Subtotal (net)                      | 20,000             |
| Overhead (30%)                      | 6,000              |
| Communications/Electrical (3%)      | 600                |
| Total (gross)                       | 26,600             |

# Table 8.3. Combat Arms Training.

## NOTES:

1. Actual SF may vary depending on requirements. See AFH 32-1084, Table 6.1 for additional guidance.

2. Add 12 SF for each firing lane over 21 firing lanes.

3. Range size based on 21 firing positions and includes space for mechanical ventilation and bullet-trap / backstop systems. Add 2,625 SF for units using CATS equipment or 2,025 SF for units using SETS equipment.

**8.4. Civil Engineer Prime BEEF Squadron:** The Civil Engineer Prime BEEF Squadron is separated into two distinct portions; the Expeditionary Engineering and Installation Support portion and the Emergency Services portion of the organization. Following are the authorized space allocations for CE Prime BEEF Squadrons.

## 8.4.1. CE Expeditionary Engineering and Installation Support Functions (Cat Code 171-

**443):** The Expeditionary Engineering and Installation Support portion of the Civil Engineer Prime BEEF Squadrons at host and tenant locations are authorized a total of 11,140 net square feet for all training, administrative, storage and functional work space. Table 8.4 shows proposed space allocation for their facilities. At AFRC host base locations the CE Squadron may be co-located with the Base Civil Engineer Administration and Maintenance Facility. 800 square feet of additional outside covered storage may be provided for securing mobility equipment and supplies.

|                                       | SCOPE  |
|---------------------------------------|--------|
| DESCRIPTION                           | (SF)   |
| Squadron Commander                    | 200    |
| First Sergeant                        | 120    |
| Orderly Room                          | 300    |
| ART (2 each)                          | 140    |
| Training/Test Room/CERTEST            | 300    |
| Conference Room                       | 200    |
| Flight Commander (4@ 100 SF ea)       | 400    |
| Superintendents (5@ 100 SF ea)        | 500    |
| Shop Foremen (9@ 40 ea)               | 360    |
| Additional Engineering Officer (70 SF | 7      |
| ea)                                   | 70     |
| Engineering Assistant, Supervisor,    |        |
| Drafting, Map Cabinet                 | 500    |
| Shop space (Lab environment) (Note    |        |
| 1)                                    | 1,500  |
| Production Control, Scheduling,       |        |
| Mobility Control Center               | 500    |
| Supply Room                           | 280    |
| Storage/Non Standard Mobility         | 2,000  |
| Mobility Pallets, Storage/Build-up    | 2,500  |
| Chief Enlisted Manager                | 100    |
| Unit Training Manager                 | 70     |
| Classrooms (3 @ 300)                  | 900    |
| Computer / testing room               | 200    |
| Subtotal (net)                        | 11,140 |
| Overhead (30%)                        | 3,340  |
| Communications/Electrical (3%)        | 330    |
| Total (gross)                         | 14,810 |

Table 8.4. CE Prime BEEF Squadron, Expeditionary Engineering and InstallationsSupport functions:

## NOTES:

1. Only provide if Host BCE shop space is not available for training use by reservists.

8.4.2. **Emergency Services:** The Emergency Services portion of a CE Prime BEEF Squadron consists of three separate and distinct functions; Emergency Management, Fire Emergency Services (FES) and EOD. A Civil Engineer Prime BEEF organization may contain all or some of these functions. Additionally, these functions may also be present without the other portion of the CE Prime BEEF Squadron. In those instances, the Emergency Services functions must be capable to operate independently.

8.4.2.1. **Emergency Management (Cat Code 610-913):** The Emergency Management function is normally part of, and co-located with, the Civil Engineering Prime BEEF Squadron. Emergency Management functions located with Civil Engineering Squadrons

at Host installations are authorized a total of 2,130 square feet for all administrative, storage, and functional work space; based on a manning of 7 deployable UTC positions plus 2 civilian support staff. This allocation includes a dedicated classroom for the Emergency Management function. Emergency Management functions located at tenant units are authorized a total of 620 square feet for AFRC sole-use administrative, storage, and training space; based on a manning of 5 deployable UTC positions.

| Table 8.5.         Emergency Management | <b>Table 8.5.</b> | Emergency | <b>Management:</b> |
|---|-------------------|-----------|--------------------|
|---|-------------------|-----------|--------------------|

|                                     | SCOPE         | E          |
|-------------------------------------|---------------|------------|
| DESCRIPTION                         | ( <b>SF</b> ) | SCOPE (SF) |
|                                     | HOST          | TENANT     |
|                                     | BASE          | LOCATION   |
| Flight Chief or Flight Commander (1 | 100           |            |
| Civ)                                |               |            |
| Flight Superintendent (1 TR)        | 100           | 100        |
| ART/AGR (1 FT)                      | 70            | 70         |
| Emergency Management Specialists    | 70            |            |
| (1-4 FT CIV)                        |               |            |
| Training Branch (1-3 TR)            | 80            | 40         |
| Logistics Branch (1-2 TR)           | 40            | 40         |
| Planning Branch (1-3 TR)            | 80            | 40         |
| MOBAG Storage (5 SF / deployable    | 40            |            |
| position)                           |               | 30         |
| UTC Equipment Storage               | 300           |            |
| Training Classroom                  | 750           | 200        |
| Student Break Area                  | 200           | 50         |
| Secure Storage                      | 100           | 50         |
| NBC Control Center                  | 200           |            |
| Subtotal (net)                      | 2,130         | 620        |
| Overhead (30%)                      | 640           | 190        |
| Communications/Electrical (3%)      | 60            |            |
| Overhead cover for Mobile           | 480           | 20         |
| Communications Vehicle              |               | 480        |
| Total (gross)                       | 3,310         | 1,310      |

8.4.2.2. Firefighters (Tenant) (Cat Code 130-142): Reserve firefighters should be located in a separate annex to the host fire station. The annex should be located adjacent to the base fire station and include an outside entrance. Total space authorization for tenant Reserve firefighters depends on unit manning as displayed in Table 8.6

| <b>Table 8.6.</b> | Firefighter | Training. |
|-------------------|-------------|-----------|
|-------------------|-------------|-----------|

| DESCRIPTION                          | SCOPE | ( <b>SF</b> ) |
|--------------------------------------|-------|---------------|
|                                      | 24 FF | 30/36 FF      |
| Fire Chief's Office                  | 120   | 120           |
| Deputy Fire Chief's Office           | 100   | 100           |
| Health and Safety Officer Office     |       | 70            |
| Assistant Chief of Operations Office | 100   | 70            |
| Training Facilitator's Office        | 70    | 70            |
| Training Class Room                  | 540   | 700           |
| Computer Testing Center              | 100   | 100           |
| Student Break Area w/sink            | 50    | 50            |
| Men's Changing Room/Bathroom         | 250   | 380           |
| w/Shower                             |       |               |
| Women's Changing Room/Bathroom       | 100   | 150           |
| w/Shower                             |       |               |
| Personal Protective Clothing (PPE) & | 400   | 850           |
| Self Contained Breathing Apparatus   | 100   |               |
| (SCBA) Storage & Maintenance         |       |               |
| Supply (Logistics) Storage           | 400   | 300           |
| Reception Area                       | 100   |               |
| Supply (Logistics) Officer's Office  |       | 70            |
| Vehicle Control Officer              |       | 70            |
| Subtotal (net)                       | 2,430 | 3,100         |
| Overhead (30%)                       | 730   | 930           |
| Communications/Electrical (3%)       | 70    | 90            |
| Total Gross                          | 3,230 | 4,120         |

8.4.2.3. Explosive Ordnance Disposal (EOD) Flight (Cat Code 171-443): The EOD function will be organized in one of three configurations: Host base support; tenant unit with CE operations flight, or tenant unit without a CE operation flight. Tenant EOD functions collocated with an Active Duty EOD flights that includes a CE operations flight are authorized 3,523 square feet. Tenant EOD functions collocated with an Active Duty EOD flights that does not include a CE operation flight are authorized 3,263 square feet for all administrative, storage, and functional work space. Classroom space at these locations should be shared with the associated CE squadron. Secure training /computer work area must be provided. If the EOD unit is a host base function for EOD training / operations facilities. In addition to the primary EOD training /operations facility, AFRC host installations require an outdoor high explosive training area (proficiency range) of approximately 18 acres (circle with a diameter of 1000 FT). AFRC host installations should also provide a properly configured 1 acre EOD practical training area.

|                                       | 0     |           |            |
|---------------------------------------|-------|-----------|------------|
| DESCRIPTION                           | SCOP  | PE (SF)   | T          |
|                                       |       | Tenant    | Tenant     |
|                                       |       | Unit      | Unit       |
|                                       |       | Without   | With CE    |
|                                       | Base  | CE        | Operations |
|                                       |       | Operation | sFlight    |
|                                       | 70    | Flight    | 40         |
| Equipment manager                     | 70    | 40        | 40         |
| First Sergeant                        |       | 100       |            |
| Administrative Asst                   |       | 100       |            |
| Senior Program Manager / AGR          | 100   | 120       | 120        |
| Flight Chief NCOIC/Officer            | 100   | 100       | 100        |
| Unit control                          |       |           |            |
| center/Operations/Reception area/file | 250   |           |            |
| Maintenance (SIPR-Net)                |       |           |            |
| Standardization Eval (QA)             | 200   | 40        | 40         |
| Resources                             | 70    | 40        | 40         |
| Tech Orders storage/study office      | 100   |           |            |
| (SIPR-Net)                            |       |           |            |
| Training NCO                          | 70    | 40        | 40         |
| EOD Workspace (remaining              | 320   | 400       | 400        |
| TRs/2*40)                             |       |           |            |
| Classroom (SIPR-Net)                  | 1,000 | 500       | 500        |
| Training device storage (approx 350   | 300   |           |            |
| items)                                |       |           |            |
| "Range" Training Device Storage       | 200   |           |            |
| Profession Gear and MOBBAG            | 560   | 560       | 560        |
| storage (# Pers*40 SF)                |       |           |            |
| Weapons storage                       | 100   | 70        | 70         |
| Vehicle parking/maintenance bay       | 2,460 |           |            |
| Equipment maintenance (tool bench,    | 950   |           |            |
| tool box, etc)                        |       |           |            |
| Men's Locker Room/Shower              | 700   | 380       | 380        |
| Women's Locker Room/Shower            | 200   | 150       | 150        |
| Secure logistics storage (supply      | 90    |           |            |
| issue/turn-in/supply Administration   | 150   | 70        | 70         |
| Assigned UTC 4F9X1                    | 1,000 |           |            |
| Assigned UTC 4F9X4                    | 450   |           |            |
| Subtotal (net)                        | 9,440 | 3,523     | 3,263      |
| Overhead (30%)                        | 2,830 |           |            |
| Communications/Electrical (3%)        | 280   |           |            |
| Total (gross)                         |       | )3,523    | 3,263      |
|                                       | ,     | ,         | ,          |

# Table 8.7. Explosive Ordnance Disposal (EOD) Flight.

**NOTES:** 

## AFRCH32-1001 25 JANUARY 2012

1. Host base locations require 18 acres EOD Pro Range IAW AFI 91-201.

2. Host base locations require 1 acre indoor/outdoor training area (explosive tools/techniques lab).

- 3. Host base locations require 2 ea explosive storage 7x7 containers.
- 4. All flights require SIPRNET capability in class room and operations center.
- 5. All flights require Secure building due to weapons/classified operations.
- 6. All flights require Fenced and lighted vehicle parking area.

**8.5. RED HORSE Squadron Facilities (Cat Code 171-443):** These facilities provide administrative, training, storage, and maintenances space necessary to support all aspects of Civil Engineering RED HORSE home station operations. AFRC RED HORSE squadrons are typically associated with co-located active duty RED HORSE squadrons with whom they share training and maintenance areas. In these instances, only limited sole-use space is required for AFRC squadron administration and storage requirements. **Table 8.8** shows space authorization for stand-alone as well as associated RED HORSE squadrons. Squadron space allocation may be accommodated in multiple facilities but should not exceed total authorization.

| DESCRIPTION                          | Stand –<br>Alone<br>SCOPE<br>(SF) | Associate<br>SCOPE<br>(SF) |
|--------------------------------------|-----------------------------------|----------------------------|
| ADMINISTRATIVE SPACE                 |                                   |                            |
| Headquarters / Command Staff         | 2,910                             | 2,910                      |
| Operations Staff                     | 1,380                             | 1,380                      |
| Engineering Staff                    | 3,260                             | 3,260                      |
| Logistics Training                   | 3,420                             | 3,420                      |
| Medical Training                     | 530                               | 530                        |
| Services Training                    | 870                               | 870                        |
| Vehicle Operations<br>Administration | 4,220                             | 4,220                      |
| Supply Management                    | 600                               | 600                        |
| Subtotal Administrative Space        |                                   |                            |
| (net)                                | 17,190                            | 17,190                     |
| Overhead Space (30%)                 | 5,160                             | 5,160                      |
| Communications/Electric (3%)         | 520                               | 520                        |
| Total Administrative Space (gross)   | 22,870                            | 22,870                     |
| MAINTENANCE SPACE                    |                                   |                            |
| Airfields shop                       | 6,460                             | 2,110                      |
| Cantonments shop                     | 15,020                            | 4,410                      |
| Subtotal (net)                       | 21,480                            | 6,520                      |
| STORAGE SPACE:                       |                                   |                            |
| Vehicle Operations Parking Shed      | 1,710                             | 0                          |
| Engineering Supply Storage           | 3,660                             | 2,200                      |
| Engineering Equipment Storage        | 3,420                             | 2,050                      |
| Equipment Warehouse                  | 5,200                             | 3,120                      |

#### Table 8.8. RED HORSE Squadron.

| Services Equipment Storage        | 490    | 0      |
|-----------------------------------|--------|--------|
| Subtotal (net)                    | 14,480 | 7,370  |
| Overhead Space (20%)              | 7,190  | 2,780  |
| Communications/Electric (3%)      | 1,080  | 420    |
| Total Storage / Maintenance Space |        |        |
| (gross)                           | 44,230 | 17,090 |
| Total Squadron Space (gross)      | 67,100 | 39,960 |

## NOTES:

1. Reserve RED HORSE with Active Associate is authorized space equivalent to a stand-alone squadron.

2. Stand-alone squadrons are also authorized up to 8,000 Square Yards of paved area for parking and outdoor (uncovered) storage for vehicles and mobility / training equipment.

**8.6. Wing and Group Headquarters.** These facilities include wing and/or group staff functions. Wing and Group headquarters facilities may include a variety of administrative, management, and training functions. Accurately identify the functions to be included in the facility when determining authorized facility scope to avoid duplication. Total all net facility space authorizations for functions to be included in the facility and apply overhead (30%) to determine gross facility space authorization. In addition to function specific space, Wing Headquarters facilities are authorized an additional 1,000 square feet (gross) for break areas, conference rooms, and files storage.

8.6.1. Wing Command Section (Cat Code 610-249): A total of 1,570 square feet is authorized for the Wing Command section administrative space. This allocation includes office space for the commander, vice commander, executive officer, secretary, Wing Chief MSGT and command conference room.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Commander                      | 350           |
| Vice Commander                 | 250           |
| Executive Officer              | 70            |
| Administration Section         | 100           |
| Files / Storage                | 50            |
| Waiting / Reception Area       | 50            |
| Command Chief MSgt             | 200           |
| Command Conference Room        | 500           |
| Subtotal (net)                 | 1,570         |
| Overhead (30%)                 | 470           |
| Communications/Electrical (3%) | 50            |
| Total (gross)                  | 2,090         |

## Table 8.9. Wing Command Section.

8.6.2. **Mission Support Group Command Section (Cat Code 610-243):** The Mission Support Group Commander and associated staff are authorized a total of 930 square feet. This allocation includes space for the Commander, Deputy Commander, Executive, Career Advisor, Group Superintendent, conference room, and Administrative Assistant.

8.6.3. **Operations Group Command Section (Cat Code 610-243):** The Operations Group Commander and associated staff are authorized a total of 930 square feet. This allocation includes space for the Commander, Deputy Commander, Executive, Career Advisor, Group Superintendent, conference room, and Administrative Assistant. Add 1,580 SF for Group Intelligence Office (based on 11 part-time and 2 full-time positions). Intelligence function office and work area must be secure at the compartmentalized level and includes administrative, training, library, and mobility storage area. This function may be located in the Squadron Operations facility or the Wing Headquarters.

8.6.4. **Maintenance Group Command Section (Cat Code 610-243):** The Maintenance Group Commander and associated staff are authorized a total of 930 square feet. This allocation includes space for the Commander, Deputy Commander, Executive, Career Advisor, Group Superintendent, conference room, and Administrative Assistant. This function may be located in the Wing Headquarters or one of the maintenance shop facilities.

8.6.5. **Medical Group Command Section (Cat Code 610-243):** The Medical Group Commander and associated staff are authorized a total of 930 square feet. This allocation includes space for the Commander, Deputy Commander, Executive, Career Advisor, Group Superintendent, conference room, and Administrative Assistant. This function may be located in the Wing Headquarters or one of the medical training facilities.

8.6.6. **Intelligence Group Command Section (Cat Code 610-243):** Where established, the Intelligence Group Commander and associated staff are authorized a total of 930 square feet. This allocation includes space for the Commander, Deputy Commander, Executive, Career Advisor, Group Superintendent, conference room, and Administrative Assistant.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Group Commander                | 250           |
| Deputy Group Commander         | 120           |
| Executive Officer              | 70            |
| Administration Section         | 70            |
| Files / Storage                | 50            |
| Career Advisor                 | 70            |
| Group Superintendent           | 100           |
| Group Conference Room          | 200           |
| Subtotal (net)                 | 930           |
| Overhead (30%)                 | 280           |
| Communications/Electrical (3%) | 30            |
| Total (gross)                  | 1,240         |

## Table 8.10. Group Command Section.

8.6.7. Wing Process Manager / CCO (Cat Code 610-249): The Wing Process Manager office is authorized a total of 550 square feet for all associated administrative and storage space. This allocation includes space for two private (secure) offices, and open office work space for up to four reservists, and file storage.

8.6.8. Wing Exercise Evaluation Team (EET) (Cat Code 610-249): The Wing EET office is authorized a total of 310 square feet for all associated administrative and storage space. This allocation includes space for one private (secure) offices, and open office work space for up to four reservists, and file storage.

8.6.9. Wing Inspector General (IG) (Cat Code 610-249): The Wing IG offices are authorized a total of 240 square feet. This allocation includes space for two private (secure) offices and storage.

8.6.10. **Judge Advocate** (**Cat Code 610-112**): The Wing Judge Advocate is authorized a total space calculated to accommodate the manning at each office. The total space requirement will be calculated to provide 200 square feet for the Staff Judge Advocate, and 150 square feet for each additional judge advocate, 70 square feet for each full time paralegal, and 1,040 square feet for work/meeting, administrative, storage, library, and file space. Private (secure) offices must be provided for each assigned attorney in accordance with AFI 51-504. When collocated with an Active Duty Wing Judge Advocate office, the AFRC Judge Advocate function will include only sole-use office space for the AFRC staff.

8.6.11. **Chaplain** (**Cat Code 171-445**): The Wing Chaplain office is authorized a total space calculated to accommodate the manning of each office. The total space requirement will be calculated to provide 120 square feet for the Wing Chaplain (senior chaplain) and 100 square feet for each additional chaplain, 70 square feet for each chaplain assistant, 70 square feet as a waiting area for counselees and 100 square feet for all management, administrative, storage, library, and functional work space. Each chaplain is authorized a private office. Adequate wing common or shared space will be provided to accommodate worship and religious education programs. The worship space does not have to be dedicated space.

8.6.12. **Historian** (Cat Code 610-249): The Wing historian is authorized a total of 200 square feet for office/administrative and storage space.

8.6.13. Wing Safety Office (Cat Code 610-249): The Wing Safety office is authorized a total of 550 square feet at AFRC operating locations. This allocation includes space for all management, administrative, storage, and functional work space. The Chief of Safety should be provided a private (secure) office.

8.6.14. Force Support Squadron (Cat Code 610-243): The Force Support Squadron Commander and associated staff are authorized a total of 670 square feet. This allocation includes space for the Commander, First Sergeant, and Orderly Room.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Squadron Commander             | 200           |
| Orderly Room (includes         | 300           |
| administrative asst.)          |               |
| Files / Storage                | 50            |
| First Sergeant                 | 120           |
| Subtotal (net)                 | 670           |
| Overhead (30%)                 | 200           |
| Communications/Electrical (3%) | 20            |
| Total (gross)                  | 890           |

#### Table 8.11. Squadron Command Section.

8.6.14.1. **Military Personnel Section (Cat Code 610-128):** The Military Personnel Section of the Force Support Squadron is authorized a total of 2,200 square feet for all management, administrative, storage, and functional work space. This allocation includes space for the supervisor, administrative staff, customer service area, personnel employment, personnel relocation, systems, and career enhancement offices. Communications requirements include access to Secure Internet Protocol Router Network (SIPRNET), Non-secure Internet Protocol Router Network (NIPRNET), secure and unsecure telephones, and access to facsimile machines. The Installation Personnel Readiness (IPR) office requires a room capable of classified processing. Requirements include uninterrupted power and classified storage safe. This authorization is based on a Military Personnel Section with 16 full time persons and 8 reservists. For larger sections, add 70 square feet for each additional assigned full time person and 40 square feet for each additional reservist.

8.6.14.2. Airman and Family Readiness (Cat Code 740-253): Airman and Family Readiness (A&FR) programs operated at AFRC owned installations are authorized a total of 1,100 square feet for all administrative and work center functions. A&FR programs operated where an AFRC unit is tenant to another command are authorized a total of 305 square feet for all administrative and work center functions. Tennant units that are authorized a full-time A&FR Director will be allowed square footage equal to that allocated for AFRC owned installations.

8.6.14.3. **Civilian Personnel Section (Cat Code 610-128):** The Civilian Personnel section of the Force Support Squadron is authorized a total of 620 square feet for all administrative functions and associated storage. This authorization is based on a Civilian Personnel office with 5 full time persons. For larger offices add 70 square feet for each additional assigned full time individual.

8.6.14.4. Services (Cat Code 171-443): This function includes space for base operating support services function management (where present and approved) as well as management and administrative space for mobility tasked Reservists assigned to the Force Support Squadron. Services offices at AFRC owned installations are authorized a total of 1,500 square feet for all administrative, training, storage, and work center functions. Services offices at AFRC tenant locations are authorized a total of 1,300

square feet for all associated functions. Services-unique facilities such as club, dining facility, Base Exchange and lodging, will follow the applicable design guide, or AFI 32-1022, *Planning and Programming Nonappropriated Fund Facility Construction Projects*. Storage space requirements for Services training kits are described in section 11.4.

8.6.14.5. Fitness Centers / Gymnasium (Cat Code 740-674): AFRC installations are authorized a single base fitness center and running track. Fitness center authorized space is determined based on population supported and approved on a case-by-case basis by HQ AFRC/A1S. Installations determine whether an indoor or outdoor track best meets their needs based on the local climate. Indoor tracks should be at least 1/8 of a mile long to provide a venue for Air Force fitness testing. Outdoor running track must allow for self directed fitness activities as well as military fitness assessment testing. Ideally, track will consist of a 400m or 1/4 mile oval with 3 to 4 lanes, but a shorter track, a tri-oval track, or even a fitness trail may be used as agreed upon by local commanders. Running tracks should consist of a level surface that allows for water to run off. Uphill/downhill grades must be kept to a minimum. Any track configuration should include a rubberized surface.

8.6.14.6. **Honor Guard (Cat Code 171-443):** AFRC units with an established Honor Guard function are authorized a total of 250 square feet for administrative / office area and 600 square feet for equipment storage.

8.6.15. **Operations Support Squadron (Cat Code 610-243):** The Operations Support Squadron and associated staff are authorized a total of 1,810 square feet. This allocation includes space for the Commander, First Sergeant, Orderly Room, Operations officer, Training, Tactics, Operations Plans, Flight Management and administrative assistance. Do not duplicate functional space in both the Squadron Operations and Operations Support Squadron allocation.

#### AFRCH32-1001 25 JANUARY 2012

| DESCRIPTION                       | SCOPE<br>(SF) |
|-----------------------------------|---------------|
| Squadron Commander                | 200           |
| Orderly Room (includes            | 300           |
| administrative asst.)             |               |
| Files / Storage                   | 50            |
| First Sergeant                    | 120           |
| Operations Officer (Director of   | 70            |
| Operations)                       |               |
| Training Office (2 full time)     | 140           |
| Tactics Office (1 full time, 3    | 190           |
| reservists)                       |               |
| Tactics Testing                   | 300           |
| Operations Plans (2 full time, 2  | 220           |
| reservists)                       |               |
| Flight Management (2 full time, 2 | 220           |
| reservists)                       |               |
| Subtotal (net)                    | 1,810         |
| Overhead (30%)                    | 200           |
| Communications/Electrical (3%)    | 20            |
| Total (gross)                     | 890           |
|                                   |               |

## Table 8.12. Squadron Command Section.

8.6.16. Logistics Readiness Squadron (Cat Code 610-243): This squadron provides overall direction for base logistics processes related to vehicles, cargo movement, passenger movement, personal property, supplies, equipment, deployment planning and operations, fuels, and, when appropriate, logistics plans. The Logistics Readiness Squadron command section is authorized a total of 1,200 square feet. This allocation includes space for the Commander, First Sergeant, Orderly Room, secretary, document storage and uniform issue / storage. Squadron associated functions will typically operate out of facilities dedicated to their particular function (i.e. vehicle maintenance, supply warehouse, etc.).

|                                    | SCOPE         |
|------------------------------------|---------------|
| DESCRIPTION                        | ( <b>SF</b> ) |
| Commander                          | 200           |
| 1 <sup>st</sup> Sergeant           | 120           |
| Operations Officer                 | 70            |
| Orderly Room (includes             | 300           |
| administrative asst.)              |               |
| Supply / Storage (includes uniform | 310           |
| storage / issue)                   |               |
| Conference Room                    | 200           |
| Subtotal (net)                     | 1,200         |
| Overhead (30%)                     | 360           |
| Communications/Electrical (3%)     | 40            |
| Total (gross)                      | 1,600         |

#### Table 8.13. LRS Command Section.

8.6.16.1. **Logistics Readiness Squadron** – **Readiness Element:** This element of the Logistics Readiness Squadron manages contingency operations, deployment control, and squadron readiness planning and reporting. Total space authorizations for this function are 1,000 square feet at tenant locations and 830 square feet at AFRC host base locations. At AFRC host base locations this function is typically co-located with the installation deployment control center.

8.6.16.2. Logistics Readiness Squadron – Management and Systems Element: This element of the Logistics Readiness Squadron provides training, customer service, resource and systems management, and quality control oversight at AFRC installations with contractor operated base support functions (see Chapter 3). Total space authorization for this function is 2,700 square feet. Table 8.15 shows proposed space allocation for the Logistics Readiness Squadron – Management and Systems Element.

| DESCRIPTION                    | SCOPE<br>(SF) |
|--------------------------------|---------------|
| Customer Service               | 400           |
| Logistics Support Manager      | 100           |
| Accountable Officer            | 70            |
| QAEs (4 total) (at BOS         |               |
| installations)                 | 280           |
| Training Manager and Training  |               |
| Staff                          | 300           |
| Classrooms                     | 1,000         |
| Resource Management            | 70            |
| Systems Management             | 160           |
| Other Reservists (8 @ 40)      | 320           |
| Subtotal (net)                 | 2,700         |
| Overhead (30%)                 | 810           |
| Communications/electrical (3%) | 80            |
| Total (gross)                  | 3,590         |

| <b>Table 8.14.</b> | Logistics | <b>Readiness S</b> | auadron | - Management | t and Systems Element. |
|--------------------|-----------|--------------------|---------|--------------|------------------------|
|                    |           |                    |         |              |                        |

8.6.16.3. **Logistics Readiness Squadron – Other Elements:** Additional elements of the Logistics Readiness Squadron are addressed as follows: Distribution and Traffic Management Element in section 3.9; Vehicle Management Element in section 3.5 and 3.6; Fuels Management Element in section 5.1.

8.6.17. **Public Affairs (Cat Code 610-249):** The Public Affairs office is authorized a total of 640 square feet for all management, administration, and storage requirements. This authorization is based on a Public Affairs office with 3 full time persons. For larger offices, add 70 square feet for each additional assigned full time person and 40 square feet for each additional reservist. Add 400 square feet for photography studio and graphics office when these functions are part of Public Affairs.

8.6.18. **Financial Management/Budget Advisor (Cat Code 610-249):** This function includes space for both base operations support Financial Management staff and the mobility tasked Reservists assigned to Wing/Group Finance function. Financial Management offices at AFRC owned installations are authorized a total of 3,480 square feet for all administrative, training, storage, and work center functions. Financial Management offices at AFRC tenant locations are authorized a total of 2,250 square feet for all associated functions. These standards are based on an average Financial Management staff of up to 18 full time positions at AFRC owned bases and up to 8 full time positions at tenant locations. An additional 70 square feet is authorized for each additional full time staff member. Table 8.16 shows proposed space allocation for the Financial Management function. Refer to AFI 31-101 paragraph 8.4.4.10 to determine the type of funds storage containers required.

| DESCRIPTION                     | SCOPE<br>(SF) |
|---------------------------------|---------------|
| Chief                           | 200           |
| Financial Officer               | 100           |
| Management Analyst              | 70            |
| Budget Analyst (2 @ 70 SF)      | 140           |
| Budget Officer                  | 100           |
| Administration (12 @ 70)        | 840           |
| Reservists Open Office Area (18 |               |
| @40)                            | 720           |
| FM Reserve Officer              | 70            |
| Enlisted Superintendent         | 70            |
| Full Time ART                   | 120           |
| Administration Storage          | 100           |
| Files                           | 100           |
| Computer Server Room            | 50            |
| Conference Room                 | 200           |
| Customer Service Area           | 200           |
| Computer Training Area          | 300           |
| Mobility Training Storage       |               |
| (100/LOG DET)                   | 100           |
| Subtotal (net)                  | 3,480         |
| Overhead (30%)                  | 1,040         |
| Communications/electrical (3%)  | 100           |
| Total (gross)                   | 4,620         |

## Table 8.15. Financial Management Function.

8.6.19. **Military Equal Opportunity (Cat Code 610-249):** Military Equal Opportunity functions staffed with up to three individuals are authorized a total of 250 square feet. An additional 70 square feet is authorized for each additional full time staff member.

8.6.20. **Contracting (Cat Code 610-249):** Contracting functions operating at AFRC owned installations are authorized 1,930 square feet for all administrative and work center functions. This provides work and administrative space for up to 12 assigned individuals. An additional 70 square feet is authorized for each additional full time staff member. **Table 8.16** shows proposed space allocation for the Contracting office.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Chief                          | 200           |
| Administration                 | 100           |
| Section Supervisor             | 100           |
| Contracting Staff (70 SF each) | 630           |
| Files / Storage                | 300           |
| Customer Waiting               | 200           |
| Computer Room                  | 200           |
| Conference Room                | 200           |
| Subtotal (net)                 | 1,930         |
| Overhead (30%)                 | 580           |
| Communications/electrical (3%) | 60            |
| Total (gross)                  | 2,570         |

#### Table 8.16. Contracting.

8.6.21. Wing Education and Training Office (Cat Code 730-441): Education and Training Offices are authorized 690 square feet for administrative functions. Training space associated with these functions should include 700 square feet for Video-Teleconference or distance learning classroom, 500 square feet for Computer Classroom, 500 square feet for a computer laboratory/learning center, and 500 square feet for a testing room (computer testing and/or conventional testing). Each classroom should be configured to support 20 students and should be joint use space open to all installation squadrons for their training needs.

8.6.22. Wing Sexual Assault Response Coordinator (SARC) (Cat Code 610-249): Each wing is authorized a total of 150 square feet for a private office and storage use by the SARC.

8.6.23. Wing Protocol Office (Cat Code 610-249): Each wing is authorized a total of 150 square feet for a private office and storage use by the protocol office.

8.6.24. Wing Antiterrorism Officer (ATO) (Cat Code 610-249): Each wing with a full time ATO is authorized a total of 100 square feet for a private office and storage use by the antiterrorism officer.

8.6.25. Wing Information Protection (Cat Code 610-249): The Wing Information Protection Office is authorized a total of 550 square feet at AFRC operating locations. This allocation includes space for all management, administrative, storage, and functional work space. The Chief of Information Protection should be provided a private (secure) office.

8.6.26. **Conference / Training Centers:** These facilities for local and Command directed mass training events are regionally dispersed in order to increase their utilization and decrease travel costs for users. Designated Conference Centers are Building 404 at Homestead ARB FL, Building 1204 at Westover ARB MA, and Building 467 at March ARB CA. These designated Conference Centers are authorized at their current size with no further expansion approved. Designated conference facilities are eligible for sustainment, restoration and modernization, as well as utility funding and will be managed by the host

installation. No other Conference Centers, mass briefing facilities, auditoriums, theaters, or other similar facilities are authorized for AFRC installations.

8.6.27. Office of Special Investigation (OSI) (Cat Code 610-915): At AFRC Host locations the Wing OSI office is authorized a total of 2,270 square feet . This allocation includes space for two private (secure) offices, files / record storage, weapons / evidence storage, reception area, interview room, and SIPR / Communications space. Table 8.17 shows proposed space allocation for an Office of Special Investigation facility

CODE

|                                 | SCOPE         |
|---------------------------------|---------------|
| DESCRIPTION                     | ( <b>SF</b> ) |
| Commander                       | 200           |
| Special Agent and Support Staff | 100           |
| Receptionist                    | 70            |
| Conference Room                 | 200           |
| Training Room                   | 300           |
| Visitors Waiting Area           | 150           |
| Administration Support Room     | 120           |
| Secure Visitors Waiting Room    | 120           |
| Polygraph / Interview Room      | 150           |
| Observation Room                | 70            |
| Evidence Vault                  | 200           |
| Weapons Vestibule and Vault     | 120           |
| Secure Storage Room             | 100           |
| Computer / Server Room          | 120           |
| Break Room                      | 150           |
| General Storage Room            | 100           |
| Subtotal (net)                  | 2,270         |
| Overhead (30%)                  | 680           |
| Communications/Electrical (3%)  | 70            |
| Total (gross)                   | 3,020         |
|                                 |               |

 Table 8.17. Office of Special Investigation.

**8.7. Combat Communications (Cat Code 171-447):** Combat Communications Squadrons are authorized a total of 7,000 square feet for administrative, training, operations management, and work / shop functions. Additional 21,840 gross square foot storage area / warehouse is authorized for squadrons equipped with Theater Deployable Communications (TDC) and Integrated Communications Access Package (ICAP). Outdoor uncovered storage area should be provided for storage of vehicles assigned to the squadron. **Table 8.18** shows proposed space allocation for a Combat Communications Squadron.

# AFRCH32-1001 25 JANUARY 2012

| -                                  | SCOPE         |
|------------------------------------|---------------|
| DESCRIPTION                        | SCOPE<br>(SF) |
| Commander                          | 200           |
| Conference Room                    | 200           |
| Command Staff Work Area            | 450           |
| Administration                     |               |
| Personnel                          |               |
| Training                           |               |
| Multipurpose Computer              |               |
| Workstation                        |               |
| Testing Room                       | 100           |
| Administrative Storage Room        | 50            |
| Operations Superintendent's Office | e 100         |
| COMSEC Storage Room                | 150           |
| Tactical Operations Room           | 100           |
| <b>Operations Work Area</b>        | 450           |
| <b>Communications Operations</b>   |               |
| Radio Operations                   |               |
| Systems Control                    |               |
| Multipurpose Computer              |               |
| Workstation                        |               |
| Operations Storage Room            | 50            |
| Chief of Maintenance Office        | 100           |
| Job Control Room                   | 150           |
| Log Plans/Mobility Control Center  | 150           |
| Maintenance Work Area              | 450           |
| Radio Maintenance                  |               |
| Communications Systems             |               |
| Maintenance                        |               |
| Multipurpose Computer              |               |
| Workstation                        |               |
| Maintenance Shop Bay               | 2,500         |
| Test Equipment Room                | 200           |
| Benchstock/Tool Room               | 200           |
| Systems Maintenance Room           | 500           |
| Classroom                          | 500           |
| UTC Equipment Computer Lab         | 400           |
| Subtotal (net)                     | 7,000         |
| Overhead (30%)                     | 2,100         |
| Communications/Electrical (3%)     | 210           |
| Total (gross)                      | 9,310         |
|                                    |               |

# Table 8.18. Combat Communications Squadron.

Warehouse / Storage (includes 18,200

| TDC-ICAP suite)       |        |
|-----------------------|--------|
| Overhead (20%)        | 3,640  |
| Total Storage (gross) | 21,840 |

**8.8. Recruiters (Cat Code 610-249):** Recruiting functions are authorized a total of 840 square feet for all administrative and storage requirements. This allocation is based on an average recruiting staff of up to 5 assigned individuals. An additional 100 square feet is authorized for each additional recruiter assigned. Regional recruiting offices are authorized an additional 300 square feet for meeting space in addition to the space authorized for similar installation functions. **Table 8.19** shows proposed space allocation for an installation Recruiting function.

#### Table 8.19. Recruiting.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Senior Recruiter               | 120           |
| Administration                 | 100           |
| Recruiters (3 @ 100)           | 300           |
| Waiting Area                   | 200           |
| Storage                        | 120           |
| Subtotal (net)                 | 840           |
| Overhead (30%)                 | 250           |
| Communications/electrical (3%) | 25            |
| Total (gross)                  | 1,115         |

8.9. Deployment Processing Facility (Cat Code 141-786): Deployment processing facilities are applicable to AFRC host installations. Each base develops its own Installation Deployment Plan (IDP) defining its deployment process. The following information is provided to ensure adequate space is identified and necessary infrastructure is available for AFRC unit deployment processes. Existing facilities should be used or modified to meet these requirements. When the deployment control center (DCC) is not active, Deployment Processing Facility space will be coused for other functions such as the Installation Deployment Readiness Cell (IDRC). Each AFRC installation will deploy personnel and cargo using the five automated Air Force standard systems for deployments, integrated deployment system (IDS). IDS incorporates logistics module (LOGMOD) for providing Load & Packing Lists to deploying squadrons and Deployment Schedule of Events (DSOE) to monitor all deployments; the Cargo Movement & Operating System (CMOS) & Automated Air Load Planning System (AALPS) for the movement and tracking of Air Force assets; Manpower & Personnel (MANPER) system for processing personnel; and LOGMOD Stand-Alone (LSA) to aid deploying squadrons in managing their assets and training. The IDS uses an installation's local area network (LAN). Basic "minimum" facility requirements are listed below.

8.9.1. **Deployment Control Center (DCC)**. AFRC Host Bases are authorized 1,670 square feet for all functions associated with the Deployment Control Center. Deployment command and control for the Wing Commander is monitored from this room. This room requires "controlled access," and must be capable of operating in classified mode in support of classified DMS, Global Command and Control System (GCCS), and operations plan (OPlan) directives. DCC Manning includes the following personnel: IDO, Logistics Plans, Personnel,

Transportation, DSOE Monitors, Supply, Admin, runners, and selected unit representatives (minimum manning eight, maximum depends on the number of deployment tasked units but could exceed 20). DCC Equipment Requirements: Robust communications in the DCC are essential for positive control. Minimum IDS communications requirements include access to SIPRNET, NIPRNET, secure and unsecured telephones, and access to secure and unsecured facsimile machines. DCC personnel require a GCCS terminal to access JOPES, DCAPES, Base support Planning Tool (BaS&E - formerly LOGCAT), LOGFAC, LOGMOD, MANPER-B, classified newsgroups, secure web sites, collaborative decision support tools, and other planning aids. Additional requirements include uninterrupted power and classified storage. Video surveillance of marshaling vards and aircraft loading operation areas is optional, but desired if direct line of sight of these areas is not available from the DCC. NOTE: LOGMOD requires, as a minimum, T-1 LAN connectivity to all Unit Deployment Managers (UDMs) facilities and the wide area network. A minimum of nine workstations with combined NIPR/SIPR connectivity are required. The ideal location of the DCC is in the same building or near the personnel and cargo deployment functions, personnel processing facilities, and the flight line. All deployment facilities must be heated, air-conditioned, and lighted as well as normal offices. Automatic switching backup power generation is authorized, and back-up facilities should be identified in case fire, natural disaster, terrorist activity, or other event renders the primary facilities unusable. The DCC should be collocated with the Logistics Plans office

8.9.1.1. Space authorization for the DCC includes a conference/briefing room for deployment concept briefings. This room may be one normally used for other purposes, such as a deployment training classroom or personnel deployment function (PDF) passenger briefing room. The concept briefing room should be located within the same building as the DCC and be secure to brief classified SECRET.

8.9.1.2. The load planning function is included in Space authorization for the DCC and must be adjacent to or in the immediate proximity of the DCC and the Cargo Processing Facility (CPF). It should accommodate at least two people and two computers connected to the LAN. It should be a quiet and secure area.

8.9.1.3. The quality control function is included in Space authorization for the DCC and must be adjacent to or in the immediate proximity of the DCC. It should accommodate at least four people and two computers connected to the LAN. It should be a quiet and secure area.

8.9.2. **Installation Deployment Readiness Cell (IDRC).** On a routine basis, the DCC may not be required to stand up if the responsibilities can be handled effectively in the normal operating location of the IDRC (i.e., the IDRC must mirror the DCC requirements). The IDRC is responsible for identifying, validating, and distributing tasking and information. Coordinates with UDMs to ensure appropriate units are tasked in DCAPES, and making corrections as necessary. AFRC host locations are authorized 1,400 square feet of facility space for this function. Authorization includes all logistics plans functions, personnel readiness unit, transportation and installation deployment officer and must have SIRP and NIPR capabilities.

8.9.2.1. **Reserve Deployment Readiness Cell (RDRC).** Wings at AFRC Tenant locations are authorized a total of 1,400 square feet for a RDRC that is separate from the

active duty deployment readiness cell. RDRC manages taskings associated with Reserve specific deployment requirements, includes space for all logistics plans functions, personnel readiness unit, transportation and installation deployment officer, and must have SIPR and NIPR capabilities.

8.9.3. **Personnel Deployment Function (PDF)**. AFRC Host Bases are authorized 3,025 square feet for the Personnel Deployment Function. This allocation includes all administrative, work, waiting/holding, and personnel processing functions. The PDF office is usually manned by two to four people, must have LAN connectivity, and must include a copier unless a suitable one is available nearby. The PDF continuously monitors deploying personnel requirements and publishes deployment orders. Communications requirements include access to SIPRNET, NIPRNET, secure and unsecure telephones, and access to facsimile machines. The PDF must be located in immediate proximity to the personnel processing facility:

8.9.3.1. Personnel Processing Facilities. This facility requires a personnel processing line consisting of eight work stations. Each station is manned by 1-2 people behind tables, in booths, or in cubicles. The facility also has a private area for legal and chaplain counseling and a medical station for administering injections in the hip; an indoor holding/briefing area at the beginning of the line for 100 people (seating desired); and at least two rooms to brief passengers after processing for deployment, and "hold" them until they board transportation (should hold at least 100 people and provide comfortable seating). These rooms at the end of the personnel processing line must allow PDF personnel to control entry and exit, to maintain the integrity of the deploying force; should include a projection screen or large screen TVs to provide training or entertainment (cable TV desired) to the deploying personnel; must be near well-stocked vending machines, water fountain, and restrooms. The holding/briefing rooms must be quiet and secure and cleared for classified SECRET. Holding/briefing rooms may be used for other functions during normal operations, such as other training or meetings, and may be used for the deployment concept briefing. Personnel processing facilities should be located adjacent to, or in the proximity of, the DCC and PDF.

8.9.4. **Cargo Deployment Function (CDF)**. This function is usually located on or near the cargo marshaling area. It is the installation's focal point for all cargo processing activities. LAN connectivity is required in this area. This area should provide enough room to check and process all accompanying cargo documentation. Dispatch of cargo load teams to load and unload support aircraft occurs in this facility. Normal CDF operations (cargo in-check, marshaling, and loading) can be done outdoors (ramp, apron, etc.) or in designated hangar space. The unit Installation Deployment Plan (IDP) should specify procedures for this process.

8.9.5. **Deployment Training Classrooms**. At least two rooms conducive to training at least 20 people at a time are required. Training rooms must be equipped to use standard audiovisual equipment and have LAN connectivity to train UDMs in LOGMOD. Passenger holding/briefing rooms and the room used for the deployment concept briefing may be ideal for this purpose. The IDO, PDF, and CDF must provide various initial and recurring courses to UDMs, augmentees, and deploying personnel. These rooms may also be used for meetings, conferences, and other base requirements. Ten LAN drops and computers are needed in at least one deployment training classroom for IDS training. **8.10.** Reserve Forces Medical Training and Administration Facility (Cat Code 171-450): Medical units include Aeromedical Staging Squadrons (ASTS) and Medical Squadrons (MDS). While units differ in tasking, they share similar administrative and training space requirements. However, unit tasking and unit manning must be considered when calculating space requirements. Variations in space authorization for medical units will be reviewed and validated on a case-by-case basis by HQ AFRC/SG.

8.10.1. Aeromedical Staging Squadrons (ASTS) train to perform on-ground patient care at forward and deployed locations. There is considerable variation in aeromedical staging squadron size throughout the Command. Small to mid-sized ASTS (those assigned a 50 to 150 bed UTC) are authorized 7,730 square feet of administrative, training and storage space. Large ASTS (those assigned a 151 to 250 bed UTC) are authorized 8,880 square feet of administrative, training and storage space. Table 8.20 shows proposed space allocation for an ASTS.

| DESCRIPTION                      | SCOPE (SF) |            |  |
|----------------------------------|------------|------------|--|
|                                  | ASTS       | ASTS       |  |
|                                  | (50 - 150  | (151 - 250 |  |
|                                  | BED)       | BED)       |  |
| Commander                        | 200        | 200        |  |
| Executive                        | 70         | 70         |  |
| 1st Sergeant                     | 120        | 120        |  |
| ARTs/Administration              | 750        | 900        |  |
| Conference Room                  | 200        | 200        |  |
| Chief Nurse                      | 100        | 100        |  |
| Nursing Services Area            | 750        | 1,000      |  |
| Training/Scheduling              | 150        | 150        |  |
| Skills Laboratory (one per       | 750        |            |  |
| installation)                    |            | 1,000      |  |
| Medical/Dental Records           | 300        | 300        |  |
| Physician Section                | 220        | 220        |  |
| Medical Readiness Staff          | 150        | 200        |  |
| Mental Health Office             | 120        | 120        |  |
| Pharmacy Staff                   | 200        | 250        |  |
| Dental Administration            | 150        | 150        |  |
| Optometry Administration         | 100        | 100        |  |
| Logistics                        | 200        | 300        |  |
| Classrooms                       | 1,100      | 1,400      |  |
| General Storage                  | 500        | 500        |  |
| Mobility / Training Gear Storage | 500        | 500        |  |
| Critical Care Air Transport      | 100        |            |  |
| (CCAT) storage                   |            | 100        |  |
| Aeromedical Staging Facility     | 500        |            |  |
| (Training)                       |            | 500        |  |
| OJT                              | 300        | 300        |  |

## Table 8.20. Aeromedical Staging Squadrons.

| Break Area                     | 200    | 200    |
|--------------------------------|--------|--------|
| Subtotal (net)                 | 7,730  | 8,880  |
| Overhead (30%)                 | 2,320  | 2,660  |
| Communications/electrical (3%) | 230    | 270    |
| Total (gross)                  | 10,280 | 11,810 |

8.10.1.1. If an ASTS unit located on an Active Duty installation includes an aerospace medicine package (responsible for physical exams on AFRC personnel), they are authorized an additional 975 square feet (gross) for the Chief of Aeromedical Services and the Physical Exam Section staff. Space for conducting physical exams is joint-use space located in the host Active Duty clinic. If an ASTS unit located at a Host installation includes an aerospace medicine package (responsible for physical exams on AFRC personnel), treat them as an AMDS for facility space authorization purposes.

8.10.2. Medical Squadrons (MDS) and Aerospace Medicine Squadrons / Flights (AMDS) are responsible for operation of medical exam facilities at AFRC installations (AMDS) and may have mobility taskings (MDS). There is considerable variation in medical squadron size throughout the Command depending primarily on the size of the wing they are assigned to support. Small to mid-sized MDS (those located at a base with a Traditional Reserve (TR) population of less than 1,500) are authorized 7,970 square feet for administrative, training and medical exam space. Large MDS (those located at a base with a TR population greater than 1,500) are authorized 9,170 square feet for administrative, training and medical exam space. Table 8.13 shows proposed space allocation for an MDS/AMDS. Each installation is authorized only a single medical exam facility. Medical exam space should be joint-use with other co-located services (i.e. Navy, Air National Guard, etc.) where possible. Reserve Medical Units located on Active Duty facilities are authorized space for administrative and training functions but will perform physical exams / customer service within the Active Duty clinic. Space authorization for MDS/AMDS tenanted on Active duty facilities is shown in Table 8.21

| DESCRIPTION                       | SCOPE (SF)   |              |                   |                   |
|-----------------------------------|--------------|--------------|-------------------|-------------------|
|                                   | , ,          |              | <b>Tenant MDS</b> | <b>Tenant MDS</b> |
|                                   | MDS / AMDS   | S MDS/ AMDS  | S / AMDS          | / AMDS            |
|                                   | (< 1,500 TRs | (> 1,500 TRs | (< 1,500 TRs      | (> 1,500 TRs      |
|                                   | supported)   | supported)   | supported)        | supported)        |
| Commander                         | 200          | 200          | 200               | 200               |
| Administration                    | 300          | 300          | 300               | 300               |
| 1st Sergeant                      | 120          | 120          | 120               | 120               |
| Orderly Room                      | 300          | 300          | 300               | 300               |
| Chief Nurse                       | 100          | 100          | 100               | 100               |
| Office/Exam Rooms (8 @ 80)        | 640          | 800          |                   |                   |
| Immunizations                     | 150          | 150          |                   |                   |
| Trauma Treatment                  | 300          | 300          |                   |                   |
| EKG (2 @ 90)                      | 180          | 180          |                   |                   |
| Medical Technical Station         | 110          | 110          |                   |                   |
| Supplies                          | 120          | 180          | 120               | 180               |
| General Lab                       | 120          | 120          |                   |                   |
| Skills Lab (one per installation) | 700          | 850          | 700               | 850               |
| Nursing services Area             | 700          | 850          | 700               | 850               |
| Audio Exam                        | 100          | 100          |                   |                   |
| Optometry                         | 120          | 120          | 120               | 120               |
| Dental (2 @ 120)                  | 240          | 240          |                   |                   |
| Eye Exam                          | 100          | 100          |                   |                   |
| Pharmacy                          | 100          | 100          |                   |                   |
| Dental Administration             | 120          | 120          | 120               | 120               |
| Training Officer                  | 80           | 80           | 80                | 80                |
| Classrooms (300SF each)           | 900          | 1,200        | 900               | 1,200             |
| Patient Affairs                   | 100          | 100          |                   |                   |
| Vital Signs                       | 100          | 100          |                   |                   |
| Radiology                         | 100          | 100          |                   |                   |
| Fetal Protection Program          | 100          | 100          |                   |                   |
| Drug Demand Reduction             | 200          | 200          |                   |                   |
| Interview Rooms (2 @ 100)         | 200          | 200          |                   |                   |
| Medical Records                   | 175          | 255          | 175               | 255               |
| Conference Room                   | 200          | 300          | 200               | 300               |
| Waiting                           | 600          | 800          |                   |                   |
| X-Ray                             | 275          | 275          |                   |                   |
| Dark Room (if required)           | 60           | 60           |                   |                   |
| Medical Storage                   | 60           | 60           | 60                | 60                |
| Subtotal (net)                    | 7,970        | 9,170        | 4,195             | 5,040             |
| Overhead (30%)                    | 2,390        | 2,750        | 1,260             | 1,510             |
| Communications/electrical (3%)    | 240          | 270          | 130               | 150               |
| Total (gross)                     | 10,600       | 12,190       | 5,585             | 6,700             |
|                                   | -,           | _,           | - ,               | .,                |

8.10.2.1. If Medical unit (MDS/AMDS) located on an Active Duty installation includes an aerospace medicine package (responsible for physical exams on AFRC personnel), they are authorized an additional 975 square feet (gross) for the Chief of Medical Services and the Physical Exam Section staff. Space for conducting physical exams is joint-use space located in the host Active Duty clinic.

**8.11. Bioenvironmental Engineering/Military Health (Cat Code 171-443):** Bioenvironmental engineering (BEE)/military health (MH) offices provide occupational protection services to AFRC personnel. BEE/MH offices are authorized 2,410 square feet for administrative, storage, and work space. **Table 8.22** shows proposed space allocation for the BEE/MH function.

|                                    | SCOPE         |
|------------------------------------|---------------|
| DESCRIPTION                        | ( <b>SF</b> ) |
| Shop Chief                         | 100           |
| NCOIC                              | 100           |
| Administrative (70 Per Person x 9) | 630           |
| CBRN Prep                          | 150           |
| Classroom                          | 400           |
| Locker Room                        | 100           |
| Shower                             | 50            |
| Forms Storage                      | 80            |
| Quantitative Fit Test Room         | 100           |
| Threat Agency Surveillance         |               |
| Package Storage                    | 150           |
| Water / Environmental Sampling     |               |
| Lab                                | 200           |
| Industrial Hygiene Lab             | 200           |
| Industrial Hygiene Equipment       |               |
| Storage                            | 150           |
| Subtotal (net)                     | 2,410         |
| Overhead (30%)                     | 720           |
| Communications/electrical (3%)     | 70            |
| Total (gross)                      | 3,200         |

#### Table 8.22. Bioenvironmental Engineering.

## 8.12. Aerial Port Training Facility (Cat Code 171-873):

8.12.1. Facility Requirement. These facilities provide for administrative, classroom training, cargo processing and aerial delivery operations functions. Aerial port squadrons (APS) at AFRC installations with 12 PAA, and at Geographically Separated Units, are authorized 8,820 square feet for all administrative and training functions. Squadrons that support Aerial Delivery Systems (air drop operations) are authorized an additional 9,500 square feet for build-up, storage, training and parachute packing space. Table 8.23 shows proposed space allocation for an APS.

| Table 8.23.         Aerial Port Squadron | <b>Table 8.23.</b> | Aerial Port So | quadron. |
|--|--------------------|----------------|----------|
|--|--------------------|----------------|----------|

| DESCRIPTION                     | SCOPE<br>(SF) | SCOPE<br>(SF)<br>Aerial<br>Delivery<br>Systems | SCOPE<br>(SF)<br>Aerial<br>Delivery<br>Systems<br>on AMC<br>Base |
|---------------------------------|---------------|--|--|
| Administrative                  |               |  |  |
| - Commander                     | 200           | 200  | 200  |
| - 1 <sup>st</sup> Sergeant      | 120           | 120  | 120  |
| - Advisor (ART)                 | 100           | 100  | 100  |
| - Orderly Room/Admin.           | 400           | 400  | 400  |
| - Break Room                    | 200           | 200  | 200  |
| - Locker Room                   | 400           | 400  | 400  |
| - Supply                        | 300           | 300  | 300  |
| - Storage for mobility bags     | 500           | 500  | 500  |
| - High Value Item Storage       | 100           | 100  | 100  |
| Training                        |               |  |  |
| - Material Handling             | 200           | 200  | 200  |
| Equipment                       | 200           | 200  | 200  |
| - Air Terminal Operations       | 200           | 200  | 200  |
| Center (ATOC)                   |               |  |  |
| - Port Operations (RAMP)        | 200           | 200  | 200  |
| - Freight                       | 200           | 200  | 200  |
| - Load Build-                   | 3,500         | 13,000   | 0  |
| up/Storage/Training (see notes) | ,             | ,  | -  |
| - Equipment and Supplies        | 700           | 700  | 700  |
| - Safety/Quality                | 200           | 200  | 200  |
| - Special Handling              | 200           | 200  | 200  |
| - Training Office               | 200           | 200  | 200  |
| - Classrooms                    | 900           | 900  | 900  |
| Subtotal (net)                  | 8,820         | 18,320   | 5,320  |
| Overhead (30%)                  | 2,670         | 5,500  | 1,600  |
| Communications/electrical       | 270           | 550  | 160  |
| (3%)                            |               |  |  |
| Total (gross)                   | 11,830        | 24,370   | 7,080  |

## **NOTES:**

1. Storage should include high bay area for vertical platform storage racks.

2. Space can also be used for indoor vehicle storage at Northern tier locations.

8.12.2. Aerial Port Squadrons (APS) co-located with Active Duty functions are authorized 5,320 square feet for all training and administrative functions and use the host base air freight terminal for "hands on" training.

## Chapter 9

## **MAINTENANCE FACILITIES**

**9.1. Hangar** (Cat Code 211-111): Protected space for aircraft maintenance. Includes necessary utility systems and limited office/administrative space. Each AFRC airlift or aerial refueling unit with 8 PAA is authorized one fully enclosed scheduled maintenance hangar, one nose dock unscheduled maintenance hangar, and adequate access to one nose dock fuel systems maintenance hangar as required to meet mission and training requirements. Northern tier bases should be provided access to a fully enclosed hangar for accomplishing fuel systems maintenance. Dedicated corrosion control or paint / de-paint hangars are not authorized for AFRC units. The number of dock spaces to be provided for fighter/helicopter units, as well as units with more than 8 PAA can be determined by multiplying the number of primary assigned aircraft (PAA) by the following factors as shown in table 9.1.

## Table 9.1. Hangar Quantity Factors.

| AIRCRAFT            | FACTOR |
|---------------------|--------|
| Fighter/helicopter  | 0.25   |
| C-5                 | 0.16   |
| C-17                | 0.20   |
| C-130, KC-135, B-52 | 0.15   |

**Formula:** Number of aircraft by type x factor = Required covered spaces. Fuel maintenance/corrosion control hangar (Cat. Code 211-179) is not included in this number.

**Example:** 12 each C-130 x .15 = 1.8 or 2 covered spaces + one fuel maintenance hangar.

**9.2. Maintenance Operations Squadron (Cat Code 610-129):** This squadron is responsible for developing and publishing the wing flying/maintenance schedule, determining long-range fleet health maintenance priorities, assigning priorities for and coordinating use of shared maintenance resources, providing trend analysis information to the squadron commanders, and providing supply liaison and engine management support for flight line and back shop maintenance. Total authorized space for this squadron is 3,280 square feet. This allocation provides space for offices for the chief of maintenance, classroom, maintenance operations control, plans, scheduling, documentation, quality control, records and analysis and administration. Table 9.2 shows proposed space allocation for the Maintenance Operations Squadron.

## AFRCH32-1001 25 JANUARY 2012

| FUNCTION                    | SCOPE (SF) |
|-----------------------------|------------|
| Commander                   | 200        |
| Administration              | 100        |
| Files/Storage               | 50         |
| 1st Sergeant                | 120        |
| Orderly Room                | 300        |
| Quality                     | 160        |
| Maintenance Operations      |            |
| Center (MOC)                | 450        |
| MOS Superintendent          | 100        |
| Plans and Scheduling        | 220        |
| Analysis                    | 220        |
| Conference Room             | 200        |
| Classrooms (2 @ 300)        | 600        |
| Computer Room/Tech Order    | ſ          |
| Library                     | 150        |
| Financial and storage       | 150        |
| Training Office and storage | 150        |
| Programs & Mobility         | 110        |
| Subtotal (net)              | 3,280      |
| Overhead (30%)              | 980        |
| Communications/electrical   |            |
| (3%)                        | 100        |
| Total (gross)               | 4,360      |

#### Table 9.2. Maintenance Operations Squadron.

## **NOTES:**

Maintenance Operations Center requires secure communications access and frequently serves as the Wing alternate Command Post

**9.3. Maintenance Supply Liaison (MSL) (CAT Code 211-154):** Assigned to the Logistics Readiness Squadron, the MSL provides forward supply control and parts storage in support of aircraft maintenance operations. MSL is typically located within aircraft maintenance shops or in separate facilities proximal to aircraft maintenance shops. MSL is authorized 140 square feet for administrative space and 600 square feet for parts and supply storage.

**9.4. Maintenance Squadron (MXS) (Cat Code 211-154):** This squadron is responsible for performing scheduled and unscheduled maintenance on assigned aircraft as well as maintenance and repair of specific component systems. Squadron is typically organized into subordinate flights that are responsible for maintenance and repair of specific component systems. Squadron Command section is authorized a total of 1,980 square feet for administration and training activities. Table 9.3 shows proposed space allocation for the Maintenance Squadron command section.

| viaintenance Squadron.  |            |
|-------------------------|------------|
| FUNCTION                | SCOPE (SF) |
| Commander               | 200        |
| Administration          | 100        |
| Files/Storage           | 50         |
| Conference Room         | 200        |
| 1st Sergeant            | 120        |
| Orderly Room            | 300        |
| Maintenance Officers (3 |            |
| Officers)               | 160        |
| Superintendent          | 100        |
| Classrooms (3 @ 200)    | 600        |
| Computer Room/Tech O    | rder       |
| Library                 | 150        |
| Subtotal (net)          | 1,980      |
| Overhead (30%)          | 600        |

Communications/electrical

(3%)

Total (gross)

## Table 9.3. Maintenance Squadron.

9.4.1. **MXS General Purpose Shops (Cat Code 211-152):** Use the following authorizations for shops supporting 12 PAA airlift/aerial refueling, 16 PAA fighter units, and 8 PAA bomber units. Shop space required to support additional PAA will be determined on a case-by-case basis in coordination with HQ AFRC/A4M. Shop space includes area for superintendent office, break room, locker room, tool storage and computer stations / tech order library as required.

60

2,640

| FUNCTION                   | SCOPE (      |        |        |        |        |
|----------------------------|--------------|--------|--------|--------|--------|
|                            | Fighters     |        |        |        |        |
|                            | /<br>Bombers | C-130  | KC-135 | C-5    | C-17   |
| Squadron Commander         | 200          | 200    | 200    | 200    | 200    |
| 1 <sup>st</sup> Sergeant   | 120          | 120    | 120    | 120    | 120    |
| Administrative Assistant   | 100          | 100    | 100    | 100    | 100    |
| File Storage               | 50           | 50     | 50     | 50     | 50     |
| Orderly Room               | 300          | 300    | 300    | 300    | 300    |
| Squadron Conference Room   | 200          | 200    | 200    | 200    | 200    |
| Flight Chief Offices (4 @  |              |        |        |        |        |
| 100)                       | 400          | 400    | 400    | 400    | 400    |
| Fabrication Flight         |              |        |        |        |        |
| Machine                    | 2,500        | 2,500  | 2,500  | 4,000  | 4,000  |
| Welding                    | 2,500        | 2,500  | 2,500  | 2,500  | 2,500  |
| Sheet Metal                | 2,500        | 2,500  | 2,500  | 2,500  | 2,500  |
| Corrosion Control (Note    | ,            | ,      | ,      | ,      | ,      |
| 1)                         | 2,900        | 2,900  | 2,900  | 3,400  | 3,400  |
| Fiberglass, Composite      |              |        |        |        |        |
| Material                   | 1,000        | 700    | 700    | 2,500  | 3,200  |
| NDI (Note 3)               | 4,000        | 4,000  | 4,000  | 4,000  | 4,000  |
| <b>Propulsion Flight</b>   | ,            | ,      |        | ,      | ,      |
| Engine / APU Inspection    |              |        |        |        |        |
| and Maintenance            | 7,070        | 7,070  | 6,900  | 10,160 | 10,160 |
| HAZMAT issue / recycling   | 200          | 200    | 200    | 200    | 200    |
| Inspection Flight          |              |        |        |        |        |
| Wheel and Tire             |              |        |        |        |        |
| Repair/Reclamation         | 1,500        | 2,000  | 2,000  | 2,000  | 2,000  |
| Isochronal Shop            |              |        |        |        |        |
| Management                 | 300          | 300    | 300    | 300    | 300    |
| Accessories Flight         |              |        |        |        |        |
| Electric, Environ, Battery | 1,500        | 2,500  | 2,500  | 4,500  | 3,000  |
| Hydraulic, Pneudraulic     |              |        |        |        |        |
| (Note 2)                   | 1,000        | 1,500  | 1,500  | 2,000  | 1,700  |
| CTK/RSP/Tool Kit Storage   | 1,000        | 1,000  | 1,000  | 1,000  | 1,000  |
| Crash Recovery Equipment   | ,            | ,      |        | ,      | ,      |
| Storage                    | 400          | 800    | 800    | 800    | 800    |
| MXS Break Room             | 800          | 800    | 800    | 800    | 800    |
| Subtotal (net)             | 30,540       | 32,640 | 32,470 | 42,030 | 40,930 |
| Overhead (20%)             | 6,110        | 6,530  | 6,490  | 8,410  | 8,190  |
| Total (gross)              | 36,650       | 39,170 | 38,960 | 50,440 | 49,120 |
| S:                         |              |        |        |        |        |

# Table 9.4. Maintenance Squadron and Shops (MXS) Sized by Weapon System.

NOTES:

 Paint booths require 10 foot minimum ceiling height. Only one AFRC owned paint spray bay/booth is authorized per base. AFRC units are not authorized any aircraft painting other than maintenance touch-up and then only to the extent authorized by the base environmental office.
 All units with refueling capability require additional space to service the re-fuel boom. This periodical task is normally accomplished in any open area (that is, engine shop aisle, support equipment shop, etc.); however, if no other area is available, an additional 260 square feet (gross) is authorized for the hydraulic shop.

3. If a NDI shop exists on a given base, joint use is required. Facility will not be duplicated.

**9.5.** Aircraft Organization Maintenance Shop (Cat Code 211-154): Aircraft Maintenance Squadron (AMXS) or "flightline maintenance" is responsible for maintenance and inspection of unit assigned aircraft. Facility requirements are determined by the weapons system supported, number of assigned aircraft (PAA), and hours of maintenance operations. Use the authorizations shown in Table 9.5 for units supporting 12 PAA airlift/aerial refueling, 21/24 PAA fighter, and 8 PAA bomber units. Additional authorizations for units required to support additional PAA will be determined on a case-by-case basis in coordination with HQ AFRC/A4M.

| <b>FUNCTION</b> S                       | COPE (S             | F)         |        | _     |              |            |                |      |
|---|---------------------|------------|--------|-------|--------------|------------|----------------|------|
|   |                     | Rescue     | Rescue |       |              |            | Associate      | Asso |
|   | ighters/<br>Bombers | Helicopter | C-130  | C-130 | C-5/C-<br>17 | KC-<br>135 | Tanker/Airlift | Figh |
| Squadron Commander 20                   | 00                  | 200        | 200    | 200   | 200          | 200        | 200            | 200  |
| Administration 10                       | 00                  | 100        | 100    | 100   | 100          | 100        | 100            | 100  |
| Maintenance Officer 70                  | 0                   | 70         | 70     | 70    | 70           | 70         | 70             | 70   |
| Maintenance NCOIC 10                    | 00                  | 100        | 100    | 100   | 100          | 100        | 100            | 100  |
| 1st Sergeant 12                         | 20                  | 120        | 120    | 120   | 120          | 120        | 120            | 120  |
| Superintendent 70                       | 0                   | 70         | 70     | 70    | 70           | 70         | 70             | 70   |
| Maintenance Debrief 50                  | 00                  | 300        | 200    | 200   | 200          | 200        | 200            | 300  |
| Flight Officers 2 @ 100 20              | 00                  | 200        | 200    | 200   | 200          | 200        | 200            | 200  |
| Conference Room 40<br>(Briefing)        | 00                  | 400        | 400    | 200   | 200          | 200        | 200            | 200  |
| Maintenance Training 60<br>Classroom 60 | 00                  | 600        | 600    | 600   | 600          | 600        | 600            | 600  |
| Computer work stations / 30 open office | 00                  | 200        | 300    | 300   | 300          | 300        | 300            | 300  |
| Tool Room/Bench Stock 80                | 00                  | 400        | 800    | 800   | 1,200        | 800        | 0              | 0    |
| Tail No. Bins 60                        | 00                  | 400        | 700    | 600   | 1,000        | 600        | 0              | 0    |
| Tech Order Library 10                   | 00                  | 100        | 100    | 100   | 100          | 100        | 100            | 100  |
| Ready Room/Lockers 2,                   | ,000                | 1,500      | 1,500  | 1,500 | 1,500        | 1,500      | 1,500          | 2,00 |
| Production Supervisor 10                | 00                  | 100        | 100    | 100   | 100          | 100        | 100            | 100  |
| Production Scheduling 12                | 20                  | 120        | 120    | 120   | 120          | 120        | 120            | 120  |
| Equipment (AME)                         | 000                 | 0          | 0      | 0     | 0            | 0          | 0              | 0    |
| SUPPORT Equipment 4, Maintenance        | ,000                | 3,200      | 3,500  | 3,000 | 4,500        | 3,000      | 0              | 0    |
| LOOSE-21 Equipment 0                    | )                   | 0          | 1,000  | 2,000 | 4,000        | 2,000      | 0              | 0    |

## Table 9.5. Aircraft Maintenance Squadron (AMXS).

| Storage                        |        |        |        |        |        |        |       |      |
|--------------------------------|--------|--------|--------|--------|--------|--------|-------|------|
| Subtotal (net)                 | 12,380 | 8,180  | 10,180 | 10,380 | 14,680 | 10,380 | 3,980 | 4,58 |
| Overhead (30%)                 | 3,710  | 2,450  | 3,050  | 3,110  | 4,400  | 3,110  | 1,190 | 1,37 |
| Communications/electrical (3%) | 370    | 250    | 310    | 310    | 440    | 310    | 120   | 140  |
| Total (gross)                  | 16,460 | 10,880 | 13,540 | 13,800 | 19,520 | 13,800 | 5,290 | 6,09 |

9.5.1. **Aircraft Armor Kits:** Provides storage for armor kits associated with tactical and strategic airlift as required by mission configuration. Add 80SF per PAA for storage or armor kits, containers cannot be stacked more than 2 high.

9.5.2. Aircraft Jack Test Stand (Cat Code 218-712): At installations with aircraft jack test stand, a facility may be provided to enclose test equipment protecting it from weather and premature degradation. Aircraft Jack Test Stand facility is not authorized climate control beyond mechanical ventilation.

**9.6. Fuel Systems Maintenance Dock (Cat Code 211-179):** The facility provides the area to perform maintenance on aircraft fuel systems (also may incorporate aircraft washing capabilities). Each unit with primary assigned aircraft is authorized a fuels systems maintenance space. Maintenance Dock includes 2,500 square feet for office / administrative area, tool storage, locker room, break room and showers. See section 9.1. For F-16 equipped units add 3,000 square feet to the Fuel System Maintenance Dock for tank build-up/training.

**9.7. Weapons Release, Gun Systems, Munitions Maintenance, and Munitions Training:** Refer to Air Force Munitions Facilities Standards Guide Volume 1 and Volume 2 for all munitions, weapons release, gun system maintenance or associated training facility requirements.

| Facility                           | Cat Code | SCOPE (SF)                  |
|------------------------------------|----------|-----------------------------|
| Munitions Load Crew Training       | 171-875  |                             |
| Facility                           |          | Use Active Duty Standard    |
| Missile Assembly Shop/Integrated   | 212-212  | Space determined by weapons |
| Maintenance Facility               |          | system acquisition          |
| Tactical Missile/Glide Weapon      | 212-213  | One bay/missile + admin     |
| Maintenance Shop                   |          | space                       |
|                                    | 215-552  | Space outlined in standards |
| Weapons and Release Systems Shop   |          | guide                       |
| Surveillance and Inspection Shop   | 215-582  | Use Active Duty Standard    |
| Conventional Munitions Maintenance | 216-642  |                             |
| Shop                               |          | Use Active Duty Standard    |
| AGE Facility used for Munitions    | 218-712  | Use Active Duty Standard    |
| Support Equipment Maintenance      |          |                             |
| Munitions Administrative Facility  | 610-144  | Use Active Duty Standard    |

**9.8.** Avionics Shop (Cat Code 217-712): This shop is used to perform maintenance on aircraft equipment and accessories such as airborne communications, cameras, bombing, navigation and fire control systems. The facility includes shop space, classroom, office, parts/tool storage,

restrooms and locker room space. Use the authorizations shown in table 9.7 for units supporting 12 PAA airlift/aerial refueling, 21/24 PAA fighter, or 8 PAA bomber units. Electronic countermeasures (ECM) maintenance and storage may be added to this facility. See category code 217-713, ECM POD/STORAGE. Additional space may be authorized for special requirements unique to that mission. The following space requirements apply:

#### Table 9.7.Avionics Shop.

|                                | SCOPE         |
|--------------------------------|---------------|
| AIRCRAFT                       | ( <b>SF</b> ) |
| F-16                           | 7,700         |
| A-10                           | 5,300         |
| F-22                           | 8,000         |
| C-130E/H                       | 4,480         |
| HC-130/MC-130 (See note below) | 10,850        |
| HC-130/HH-3(H-60)(ARS) (See    |               |
| note below)                    | 4,480         |
| KC-135                         | 3,780         |
| C-17                           | 4,300         |
| B-52                           | 5,300         |
| C-5                            | 6,400         |

*NOTE:* Provide an additional 1,000 square feet secure room for C-130 aircraft and 400 square feet for H-60 Helicopters Equipped with Defensive Systems. Provide an additional 600 square feet for shops supporting aircraft equipped with LAIRCM.

**9.9. Electronic Countermeasures (ECM) Pod Shop/Storage Facility (Cat Code 217-713):** This facility supports ECM activities of specific fighter and special operations units such as A-10, F-16 and others. The facility contains maintenance/testing space for ECM pods and radar warning receivers, storage space for pods, receivers and other needs, and administrative space. The function can be added to category code 217-712, Avionics Shop.

9.9.1. ECM/LANTIRN/LANA Pod Maintenance Shop/Storage Facility. The facility supports low altitude night attack (LANA) pod requirements of specific fighter units such as F-16. The facility contains maintenance and storage for LANA pods and associated equipment. The function can be added to category code 217-712, Avionics Shop. Required areas are shown in Table 9.8.

| Table 9.8. Pod Maintenance Shop/Storage Facility. |
|---|
|---|

|                            | SCOPE         |
|----------------------------|---------------|
| AIRCRAFT                   | ( <b>SF</b> ) |
| A-10                       | 6,700         |
| F-16C/D (LANTIRN included) | 8,700         |
| C-17                       | 500           |
| AC-130/HC-130/MC-130       | 8,700         |
| H-60                       | 400           |

**9.10.** Aerospace Ground Equipment (AGE) (Cat Code 218-712): This facility supports inspection, maintenance, repair, and servicing of all assigned aircraft support equipment. Units

## AFRCH32-1001 25 JANUARY 2012

supporting up to 75 pieces of powered AGE are authorized a total of 4,000 square feet for all maintenance bays, tool crib, storage, battery shop, administrative, and training space. Exterior paved parking sufficient for all assigned AGE should be provided. A dedicated AGE fuel service facility may also be provided. Table 9.9 shows space allocation for the AGE function.

|                                | SCOPE         |
|--------------------------------|---------------|
| DESCRIPTION                    | ( <b>SF</b> ) |
| Maintenance Bays               | 2,500         |
| Tool Crib                      | 200           |
| Parts Cleaning Room            | 200           |
| Battery Room                   | 100           |
| Parts/Storage                  | 400           |
| Administration                 | 200           |
| Cams/Computer                  | 100           |
| Classroom/break Area           | 300           |
| Subtotal (net)                 | 4,000         |
| Overhead (30%)                 | 1,200         |
| Communications/electrical (3%) | 120           |
| Total (gross)                  | 5,320         |
| EXTERIOR STORAGE               |               |
| Storage/Paved Parking          | 2,.250        |
| Fuel Servicing/Tanks           | 750           |

## Table 9.9. Aerospace Ground Equipment Facility.

#### **NOTES:**

1. Units maintaining 76-120 pieces of powered AGE are authorized an additional 600 SF in the maintenance shop area and an additional 600 SF of storage/paved parking area.

2. Units maintaining 121-160 pieces of powered AGE are authorized an additional 1200 SF in both the maintenance shop and the storage/paved parking area.

3. For units maintaining support equipment (non-powered AGE), add 3,200 SF paved parking area.

4. Units located at Northern Tier installations can convert up to 50% of storage/paved parking area to enclosed heated storage.

# **Chapter 10**

# **EXPLOSIVES STORAGE**

**10.1. Rocket Storage and Assembly Building (Cat Code 422-256):** This facility provides combined assembly shops and live ammunition storage space. Authorization for AFRC units is 11,160 Square Feet where mission requires.

**10.2. Segregated Magazine (Cat Code 422-257):** This magazine is used to store small quantities of many different types of explosives and ammunition. Authorization depends on mission requirements and is established by HQ AFRC/A4MW.

**10.3.** Above Ground Magazine (Cat Code 422-258): This facility is used to store general munitions as authorized by AFM 91-201 and includes small arms ammunition without explosive projectiles, fuse lighters, distress signals, and 20mm/30mm ammunitions without explosive projectiles. Authorization depends on mission requirements and is established by HQ AFRC/A4MW.

**10.4.** Storage Multicube (Cat Code 422-253): Facility is used to store flares, rockets, smoke grenades, and small arms ammunition where separate rooms are required. Authorization depends on mission requirements and is established by HQ AFRC/A4MW.

**10.5. Storage Igloo (Cat Code 422-264):** Facility designed for storage of all types on explosives and preferred for mass detonating explosives where moisture and condensation are not a problem. Structure is earth covered and either concrete or steel construction. Siting must be DDESB approved. Authorization depends on mission requirements and is established by HQ AFRC/A4MW.

**10.6. Inert Spares Storage (Cat Code 422-265):** Facility designed for storage of inert spares. Authorization for AFRC units is 2,500 Square Feet where mission requires.

## Chapter 11

## STORAGE FACILITIES - COVERED/OPEN, AND SPECIAL PURPOSE

# 11.1. Base Hazardous Storage/Hydrazine Storage and Servicing Facility (Cat Code 442-257):

11.1.1. **Base Hazardous Material Storage (Pharmacy Program).** This provides for the centralized storage and dispensing of paints, oil, solvents, chemicals, bottled gases, and other hazardous materials as required at each host base. May be constructed as a separate facility or identified as a separate area within the base general warehouse. This function is authorized 300 square feet for administrative, computer and customer service space and a total of 2,500 square feet for hazardous material storage.

11.1.2. **Base Hazardous waste Storage.** Facility provides centralized storage for hazardous waste materials prior to transport off base for ultimate disposal. Facility must be constructed and operated in accordance with federal and State environmental regulations. May be constructed as a separate facility or identified as a separate area within the base hazardous material storage facility. This function is authorized 140 square feet for administrative, computer and file storage space and a total of 800 square feet for hazardous waste storage.

11.1.3. **Hydrazine Storage and Servicing Facility.** For F-16 equipped units, provides space for servicing and storage of hydrazine fuel containers. HQ AFRC/A4M determines on a case-by-case basis whether to provide a full service facility or storage only.

**11.2. Liquid Oxygen/Nitrogen Storage (LOX/LIN) (Cat Code 442-258):** A pad, cover, fencing and road access to provide protected storage are authorized for this equipment. Use AFH 32-1084 criteria.

## 11.3. Base Supply and Equipment Warehouse (Cat Code 442-758):

11.3.1. **Warehouse Space.** Warehouse space is required for bulk and bin storage of materials. This facility includes space for aisles, receiving, shipping, packing, crating, equipment storage and issue, central mobility weapons storage, general supply and base issue/supply point, personnel clothing and equipment, latrines, utility room, administration, equipment management, and transportation management. Due to the various taskings of AFRC units, use scope in this section for planning purposes only. Design actual requirements on a case-by-case basis in coordination with HQ AFRC.

11.3.1.1. **Administrative Space.** At AFRC host installations, multiply number of full time personnel assigned to the base supply warehouse administrative staff by 70 square feet to determine net administrative facility space authorization. Add 30% facility overhead to determine gross facility space authorization.

11.3.1.2. **Basic Supply Storage.** Multiply base population of any given UTA weekend (not total assigned personnel) by 15 square feet to determine basic supply storage requirement. Supply storage may be located in centralized warehouse or distributed within individual unit facilities.

11.3.1.3. Aircraft Parts Storage Space. Multiply number of assigned aircraft (PAA) by the factors shown to determine net storage space required for aircraft parts storage. Add 20% facility overhead to determine gross facility space authorization.

#### Table 11.1. Aircraft Parts Storage.

|                         | SCOPE (SF) PER |
|-------------------------|----------------|
| WEAPON SYSTEM           | PAA            |
| Fighter                 | 500            |
| Tactical Airlift/Tanker | 700            |
| Strategic Airlift       | 1,200          |

11.3.1.4. **Mobility Bag Storage (Cat Code 442-758).** Storage space for deployable mobility bags (A bags, B bags, C bags) shall be calculated per base requirements, at 5 square feet per authorized mobility position. Determine space for other deployable mobility equipment on a case-by-case basis. *NOTE:* Mobility bags may be stored in central warehouse facilities or in unit/squadron facilities as determined by local commanders. Do not duplicate space authorizations for mobility equipment storage.

11.3.1.5. **Mobility Training Equipment:** Storage space for non-deployable mobility training equipment issued to individuals (masks, helmets, and vests) shall be calculated at 3 square feet per authorized mobility position. This equipment is typically stored within individual squadron / flight facilities but may be consolidated in central storage locations. Do not duplicate space authorizations for mobility training equipment storage.

11.3.2. Warehouse Space at Tenant Locations. At tenant locations, operation of the central base warehouse is a supplier function unless otherwise documented in the support agreement. Dedicated storage space for AFRC parts and Mobility Bags should be established using the above criteria. AFRC units at tenant locations have the following additional requirements:

#### 11.3.2.1. Readiness Spares Package (RSP):

#### Table 11.2. Readiness Spares Package.

|                         | SCOPE       |
|-------------------------|-------------|
| WEAPON SYSTEM           | <b>(SF)</b> |
| Fighter                 | 3,500       |
| Tactical Airlift/Tanker | 2,000       |
| Strategic Airlift -     | 3,500       |

11.3.2.2. In addition to RSP storage, an additional 3,500 square feet is required for deployable mobility equipment storage at tenant locations.

**11.4. Equipment Storage for Force Support Squadron (Cat Code 740-672):** Services Section of the Force Support Squadron is authorized storage space for home station training equipment as described in Table 11.3

# Table 11.3. Home station Training.

| -                                  |               |
|------------------------------------|---------------|
| HOME STATION TRAINING<br>(HST)     | SCOPE<br>(SF) |
| RFL01 Leadership Command and       |               |
| Control                            | 100           |
| Connor                             |               |
| RFL03 Lead Bed down Package        | 200           |
| RFSR1 Lead Bed down                | 200           |
| RFSR9 Readiness Management         | 200           |
| <b>RFSRB</b> Follow Augmentation   | 150           |
| RFSRJ Port Mortuary Lead           | 50            |
| <b>RFSRK</b> Follow Remains Team   | 50            |
| <b>RFSRL</b> Non-Appropriated Fund |               |
| Accounting                         | 150           |
| <b>RFSRQ</b> Protocol Enlisted     | 0             |
| RFL04 Field Grade Base-level       |               |
| Officer                            | 0             |
| RFL05 Company Grade Base-leve      | 1             |
| Officer                            | 0             |
| RFL07 Company Grade Staff          |               |
| Officer                            | 0             |
| RFL08 CEM Superintendent           | 0             |
| R-Z Services In-Place UTC          |               |
| (Mortuary)                         | 0             |
| R-H Services Staff Management      |               |
| Augmentation                       | 0             |

**NOTE:** Outside storage required for Single Palletized Expeditionary Kitchen (SPEK), minimum of 200 square feet; fuel storage, minimum of 50 square feet (at least 50 ft from buildings); and SPEK Supplies, 150 square feet. Additional storage required (5 square feet per person) for Mobility A-Bags and Mobility C-Bags, unless storage provided by Supply.

CHARLES E. STENNER, Lt Gen, USAF Commander AFRC

## Attachment 1

### **GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION**

#### References

AFPD 32-10, Installations and Facilities, 27 Mar 1995

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# Adopted Forms

Air Force (AF) Form 847, Recommendation for Change of Publication

## Abbreviations and Acronyms

A&FR—Airman and Family Readiness

AALPS—Automated Air Load Planning System

ADP—Automated Data Processing

AES—Aeromedical Evacuation Squadron

**AF**—Air Force

AFRC—Air Force Reserve Command

AFSO—Air Force Smart Operations

AGE—Aerospace Ground Equipment

AGR—Active Guard and Reserve

ALCF—Airlift Control Flight

AMDS—Aerospace Medicine Squadron

AME—Alternate Mission Equipment

AMOS—Air Mobility Operations Squadron

ANG—Air National Guard

APS—Aerial Port Squadron

APU—Auxiliary Power Unit

ART—Air Reserve Technician

### AFRCH32-1001 25 JANUARY 2012

- ASR—Airport Surveillance radar
- ASTS—Aeromedical Staging Squadrons
- ATCALS—Air Traffic Control and Landing System
- ATO—Antiterrorism Officer
- ATOC—Air Terminal Operations Center
- ATV—All Terrain Vehicle
- **BEE**—Bioenvironmental Engineer
- **BOS**—Base Operating Support
- C2—Command and Control
- CAT—Crisis Action Team
- CATM—Combat Arms Training and Marksmanship
- CATS—Combat Arms Training Simulator
- CC—Commander
- CCAT—Critical Care Air Transport
- CCO—Central Control Officer
- **CDF**—Cargo Deployment Function
- CE—Civil Engineer
- CLSS—Combat Logistics Support Squadron
- CMOS—Cargo Movement & Operating System
- **COMSEC**—Communications Security
- CSF—Chief of Security Forces
- CSS—Computer Support Specialist
- **CST**—Client System Technicians
- DCAPES—Deliberate and Crisis Action Planning and Execution Segments
- DCC—Deployment Control Center
- DDESB—Department of Defense Explosives Safety Board
- **DGS**—Deployable Ground Station
- **DOD**—Department of Defense
- **DSOE**—Deployment Schedule of Events
- **EA**—Emergency Action
- EAM—Emergency Action Message
- **ECM**—Electronic Counter Measures

- **EET**—Exercise Evaluation Team
- **EOD**—Explosive Ordnance Disposal
- FAA—Federal Aviation Administration
- FSS—Force Support Squadron
- GCA—Ground Control approach
- GCCS-Global Command and Control System
- HARM-Host Aviation Resource Manager
- ICAP—Integrated Communications Access Package
- ICC-Installation Command Center
- **IDO**—Installation Deployment Officer
- **IDP**—Installation Deployment Plan
- IDRC—Installation Deployment Readiness Cell
- IDS—Integrated Deployment Readiness System
- IG-Inspector General
- ILS—Instrument Landing System
- **IM**—Information Management
- IPR—Installation Personnel Readiness
- ISR—Intelligence Surveillance and Reconnaissance
- JAFAN—Joint Air Force-Army-Navy
- JISCC-Joint Incident Site Communications Capability
- JOPES—Joint Operation Planning and Execution System
- LAIRCM—Large Aircraft Infrared Countermeasures
- LAN—Local Area Network
- LANA—Low Altitude Night Attack
- LANTIRN-Low-Altitude Navigation & Targeting Infrared for Night
- LIN—Liquid Nitrogen
- LOGFAC—Logistics Feasibility Assessment Capability
- LOGMOD—Logistics Module
- LOX—Liquid Oxygen
- MANPER—Manpower & Personnel
- MDS—Medical Squadrons
- METNAV-Meteorological and Navigational Aids

#### AFRCH32-1001 25 JANUARY 2012

- **MH**—Military Health
- **MOS**—Maintenance Operations Squadron
- MPF—Military Personnel Flight
- MSL—Maintenance Supply Liaison
- MTT-Mission Task Trainer
- MXS—Maintenance Squadron
- NAVAID—Navigation Aids
- NCC—Network Control Center
- NCOIC—Non-Commissioned Officer in Charge
- NIPRNET—Non-secure Internet Protocol Router Network
- **OPR**—Office of Primary Responsibility
- **OSI**—Office of Special Investigation
- PAA—Primary Assigned Aircraft
- **PAR**—Precision Approach Radar
- **PDF**—Personnel Deployment Function
- **QAE**—Quality Assurance Evaluator
- **RAPCON**—Radar Approach Control
- **RDRC**—Reserve Deployment Readiness Cell
- **RDS**—Records Disposition Schedule
- **RPA**—Remotely Piloted Aircraft
- **RSP**—Readiness Spares Package
- SARC—Sexual Assault Response Coordinator
- SARM—Squadron Aviation Resource Manager
- SCIF—Sensitive Compartmented Information Facility
- SERE—Survival Evasion Resistance and Escape
- SETS—Squad Engagement Training Simulator
- SF—Square Feet
- SFS—Security Forces Squadron
- SIPRNET—Secure Internet Protocol Router Network
- SPEK—Single Palletized Expeditionary Kitchen
- TACAN—Tactical Navigation Aid
- **TDC**—Theater Deployable Communications

TMO—Traffic Management Office
TR—Traditional Reservist
UAV—Unmanned Aerial Vehicle
UDM—Unit Deployment Manager
UTC—Unit Task Code
VCC—Visitor Control Center
VHF—Very High Frequency
VOR—VHF Omnidirectional Range
WGA—Work Group Administrator

WMD—Weapons of Mass Destruction

## Terms

**Northern Tier**— Those installations with 30 or more days per year of minus  $12 \degree C (10\degree F)$  or lower or with an average January temperature of minus  $7\degree C (20\degree F)$  or lower as determined from two 10-year (or longer) weather data bases.

**Open Office**— Administrative work space constructed with the minimum amount of interior walls required to provide structural support.

**Minor Modification**— Facility modifications that do not significantly alter existing common areas such as entry ways, hall ways, mechanical rooms, and bathrooms.