

**14 APRIL 2004**



**Maintenance**

**AMARC STORAGE AND WITHDRAWAL OF  
AIRCRAFT AND EQUIPMENT**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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OPR: HQ AFMC/LGPW (W. Thomas)  
Supersedes AFMCI 21-123, 27 June 1996

Certified by: HQ AFMC/LGP (Col Eugene Collins)  
Pages: 9  
Distribution: F

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This instruction implements AFI 16-402, *Aerospace Vehicle Programming, Assignment, Distribution, Accounting, and Termination*. This instruction sets up policy and responsibilities for storing and withdrawing aircraft and equipment. The Aerospace Maintenance and Regeneration Center (AMARC) at Davis-Monthan Air Force Base (DM AFB) is the Department of Defense (DoD) authorized air and space storage site. It is a Depot Maintenance Business Area (DMBA) activity, so all customer requirements will be negotiated for work loading. This instruction does not apply to the Air National Guard or US Air Force Reserve units and members.

***SUMMARY OF REVISIONS***

**This document is substantially revised and must be completely reviewed.**

This instruction provides guidance that was contained in AFMCI 21-123, 27 June 1996. Corrections and updates have been completed to reflect current organization structure, responsibilities and procedures and the format to reflect current requirements.

***Section A—Storage of Air and Space Vehicles***

**1. Aircraft and Space Vehicle Storage.**

1.1. Aircraft and space vehicles are stored at AMARC applying the procedures in Technical Order (TO) 1-1-686, *Desert Storage, Preservation And Process Manual For Aircraft, Aircraft Engines, And Aircraft Auxiliary Power Unit Engines*. The category of storage, as described in **Attachment 1**, determines the extent of maintenance performed on the items during storage.

1.2. The Headquarters United States Air Force (HQ USAF) determines the projected requirement for the air and space vehicles, i.e. reclaim and dispose, short or long-term storage.

**2. Policy:**

### 2.1. Temporary and Extended Storage:

2.1.1. HQ USAF will direct air and space vehicles to be stored at AMARC. AMARC will not store Air Force aircraft unless HQ AFMC/Logistics Directorate, Logistics Readiness Division, Aerospace Vehicle Disposition Officer (LGRC-AVDO) provides AMARC an assignment directive message.

2.1.2. The responsible System Manager (SM) will arrange storage, as directed by HQ USAF, for aircraft awaiting modification, repair, programmed depot maintenance, transfer, etc.

2.1.3. Armament and classified equipment should be removed before transferring aircraft to AMARC (TO 1-1-686) if not required for safety of flight. AFMCI 23-111, *Reclamation of Air Force Property*, sets forth procedures for requesting removal of parts from aircraft stored at AMARC.

### 2.2. TO 1-1-686 governs storing aircraft at AMARC.

## 3. Responsibilities:

### 3.1. HQ AFMC/LGRC-AVDO will:

3.1.1. Forward all assignment directive messages regarding storage or preservation of aircraft to the SM and AMARC/Resources Management Division, Workload Branch (MAWW). Directives regarding projects will include information on mission design series (MDS) of aircraft, source, serial number, type of storage required (assignment code) and ultimate disposition, if known.

3.1.2. Receive projects to withdraw assets on AF Form 913, **Aerospace Vehicle Project Action**, from HQ USAF/XPP and ensure appropriate assignment action is taken.

### 3.2. The SM will:

3.2.1. Prepare and keep current individual storage TO for weapons systems managed. Minimum individual TO coverage will include information and procedures regarding inspection and maintenance for storage (long term, extended, indefinite and flyable), including requirements for humid and dry (less than 40% relative humidity) climates. These procedures are to be in conjunction with the general procedures contained in TO 1-1-686. Also, TO information will cover specific practices for withdrawal from storage. Type 4000 storage is limited to the requirements of TO 1-1-686.

3.2.2. Develop, in individual TOs, standards for special inspection and maintenance of assets removed from either temporary or extended storage. These standards will be critical enough to make sure systems, components, and assemblies are in a serviceable condition and that hidden deterioration is disclosed. Standards also will provide for variations in:

3.2.2.1. Length of time assets have been in storage.

3.2.2.2. Climatic conditions of the storage sites.

3.2.2.3. Operational and installed times of components as shown in historical records.

3.2.3. Coordinate individual TOs with Warner Robins Air Logistics Center (WR-ALC), AMARC and the appropriate commodity ALC.

3.2.4. Coordinate with AMARC/MAWW on programs and schedules for placing aircraft in storage at AMARC and for their withdrawal.

3.2.5. Prepare maintenance project directives for limited preservation/storage of aircraft or withdrawal of aircraft from storage. Forward a message covering aircraft projects at AMARC to AMARC/MAWW with an information copy to HQ AFMC/LGM-AVDO. AMARC should receive the project directive and funding before the assets arrive.

3.2.6. Prepare work specifications as applicable, for required maintenance on aircraft or equipment removed from storage.

3.2.7. Keep adequate configuration records to aid in aircraft selection.

3.2.8. When required, coordinate with AMARC to arrange for functional flight test crews (TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*) for aircraft prepared for onetime flight from AMARC.

3.2.9. Maintain and provide WR-ALC Space and Special Systems Directorate (LK) with the current man-hour standards for inclusion in TO 1-1-17, *Storage of Aircraft and Missile Systems* (only those aircraft for which the SMs have designated responsibility). See **paragraph 3.4.1**.

### 3.3. AMARC will:

3.3.1. Coordinate with releasing or receiving organizations on individual aircraft arrivals and departures. AMARC/MAWW will develop a local checklist to assist the customer with delivering an aircraft.

3.3.2. Report aircraft arrivals and departures from their facilities according to AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*.

3.3.3. Comply with TO 1-1-686 in the preservation and storage of aircraft, engines, and related components.

3.3.4. Prepare aircraft for surface shipment or comply with TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation Policy and Procedures*, and applicable aircraft TOs to make sure aircraft flown from AMARC are airworthy.

3.3.5. Accomplish aircraft inventory IAW 1-1-686. Update or dispose of inventory records IAW AFI 21-103.

### 3.4. WR-ALC/LK will:

3.4.1. Publish TO 1-1-17 and keep it current. This TO will:

3.4.1.1. Provide general instructions applicable to the storage and preservation of all aircraft that are not stored at AMARC.

3.4.1.2. Set up the format to be used for the individual aircraft storage TOs.

3.4.1.3. Specify subjects to be covered in the individual Tos.

3.4.2. Publish TO 1-1-686 and keep it current with detailed preservation procedures.

3.5. Oklahoma City ALC (OC-ALC) will give WR-ALC information on preservation of reciprocating and gas turbine engines (including auxiliary power units) for inclusion in TO 1-1-686.

3.6. Air Force Research Laboratory, Materials and Manufacturing Directorate, Air Force Corrosion Prevention and Control Office (AFRL/MLS-OLR) will:

3.6.1. Provide technical support at AMARC Joint Service Task Team Meeting.

3.6.2. Work assigned action items at the Joint Service Task Team Meeting.

3.6.3. Coordinate change to TO 1-1-686 with Warner Robins ALC/LK and Joint Service Task Team representatives.

### ***Section B—Storage of Equipment***

**4. Other Assets :** The responsibilities for the storage of other assets (equipment, tooling, pylons, etc.) are negotiated between the customer and AMARC. A workload agreement is prepared and coordinated with the customer and AMARC/MAWW. (See [Attachment 2](#) for a sample of an agreement.)

### ***Section C—Withdrawal***

**5. Aircraft Sold/Transferred to Foreign Military Sales (FMS) recipients:** Secretary of the Air Force, International Affairs (SAF IA) and the SM will coordinate and provide guidance to AMARC for all FMS transactions. Work specifications will be in accordance with SAF-IA directives.

**6. The SM will:** Receive projects to withdraw assets from HQ USAF/XPP and coordinate with AMARC/MAWW on programs for withdrawing aircraft in storage. AF Form 913, **Aerospace Vehicle Project Action**, will include the MDS and serial number of the aircraft and the recipient.

Col Eugene Collins, Chief, Depot Maint. Div  
Director of Logistics

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation Policy and Procedures*

TO 1-1-17, *Storage of Aircraft and Missile Systems*

TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*

TO 1-1-686, *Desert Storage, Preservation And Process Manual For Aircraft, Aircraft Engines, And Aircraft Auxiliary Power Unit Engines*

AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*

AFMCI 21-111, *Reclamation of Air Force Property*

***Abbreviations and Acronyms***

**AMARC**—Aerospace Maintenance and Regeneration Center

**ALC**—Air logistic center

**CEM**—Communication, Electronic, Meteorological

**CONUS**—Continental United States

**DMBA**—Depot maintenance business area

**FAA**—Federal Aviation Administration

**FMS**—Foreign military sales

**MDS**—Mission design series

**SF**—Standard Form

**SM**—System Manager

**SRA**—Special repair activity

**Storage**—See TO 1-1-686 for descriptions of the storage/preservation types.

**Attachment 2**

**WORKLOAD AGREEMENT COVER SHEET FORMAT**

WORKLOAD AGREEMENT

BETWEEN

THE AEROSPACE MAINTENANCE AND REGENERATION CENTER (AMARC)

6700 EAST IRVINGTON ROAD

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA 85707-4305

AND

(RECEIVING ORGANIZATION TITLE)

(ADDRESS OF RECEIVING ORGANIZATION)

FOR

STORAGE OF (WHATEVER THE AGREEMENT IS FOR)

(FB2373-XXX)

APPROVAL:

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APPROVING OFFICIAL'S SIGNATURE BLOCK Date

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AMARC COMMANDER'S SIGNATURE BLOCK Date

**Attachment 3****WORKLOAD AGREEMENT FORMAT**

**A3.1. PURPOSE:** This agreement is between the Aerospace Maintenance and Regeneration Center (AMARC), 6700 E. Irvington Road, Davis-Monthan Air Force Base, Arizona 85707-4305, and customer, address and state . It establishes and defines procedures and responsibilities for the storage of.

**A3.2. RESPONSIBILITIES:**

A3.2.1. (Receiving Organization's Office Symbol) will:

A3.2.1.1. Write in whatever responsibilities of the receiving organization within this paragraph and subparagraphs.

A3.2.1.2. Write in whatever responsibilities of the receiving organization within this paragraph and subparagraphs.

A3.2.2. AMARC will:

A3.2.2.1. Write in whatever responsibilities AMARC will be performing within this paragraph and subparagraphs.

A3.2.2.2. Write in whatever responsibilities AMARC will be performing within this paragraph and subparagraphs.

**A3.3. FUNDING AND REIMBURSEMENT:**

A3.3.1. (Receiving organization's office symbol) will be responsible for:

A3.3.1.1. Funding those functions related to receiving and processing \_\_\_\_\_ for storage in AMARC and for withdrawal or disposal. Receiving and processing may include, but will not be limited to: receiving, offloading, preserving and placing into storage.

A3.3.1.2. Fund any special repair activities (SRA) that are above the normal maintenance/storage support functions that would occur during storage.

A3.3.1.3. Provide AMARC (office symbol of organization) with AF Form 181, **Project Order**, or appropriate funding document, 7 days prior to induction of work (include address for funding document to be sent to).

A3.3.1.4. Reimburse AMARC for the services provided based on rates determined according to Depot Maintenance Business Area (DMBA) accounting and budgeting procedures.

A3.3.2. AMARC/Comptroller Directorate (FM) will be responsible for funding of those maintenance and storage support requirements performed on the \_\_\_\_\_ until such time as they are withdrawn or disposed of as surplus property.

A3.3.3. AMARC/Financial Services Division (FMF) will prepare Standard Form (SF) 1080, **Voucher for Transfers Between Appropriations and/or Funds**, for (office sending funds), as of the end of each month for services rendered during that month. Forward billing to AMARC/FMA for certification prior to submitting to the Defense Finance and Accounting Service-Limestone/AOR, 27 Arkansas Road, Limestone ME 04751-1500, for payment by transfer of funds between appropriations.

**A3.4. Administrative Review:** Recommendations for changes to this agreement should be directed to AMARC/Workload Branch (MAWW), DSN 228-8001, Commercial (520) 228-8001. The provisions of this agreement will remain in effect until rescinded or amended by mutual consent of the signatories. AMARC/MAWW will initiate a triennial review of this agreement according to AFI 25-201, *Support Agreements Procedures*.

**A3.5. Attach a Statement of Work (if appropriate).**

**Attachment 4**

**STATEMENT OF WORK FORMAT**

1. GENERAL. Brief explanation of contents of the agreement.
2. PURPOSE. Brief explanation of purpose of the agreement.
3. ITEM IDENTIFICATION. Brief explanation of items to be stored or services to be provided.
4. SERVICES. AMARC will provide...(explain in detail all functions and responsibilities that AMARC will provide. Subparagraphs may be used. Use capital alphas for numbering paragraphs.
  - A. Data as appropriate
  - B. Data as appropriate
5. TECHNICAL DATA. This paragraph may be used to explain what the receiving organization will provide. May be omitted if not necessary.
  - A. Data as appropriate
    - B. Data as appropriate
      1. Data as appropriate
      2. Data as appropriate