BY ORDER OF THE COMMANDER, 16TH SPECIAL OPERATIONS WING (AFSOC) HURLBURT FIELD INSTRUCTION 84-101

1 JULY 2006

History



HURLBURT FIELD MEMORIAL AIR PARK

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This publication implements Air Force Policy Directive (AFPD) 84-1, *Historical Information, Property and Art;* and Air Force Instruction (AFI) 84-103, *U.S. Air Force Heritage Program.* This instruction provides for the regular maintenance and upkeep of all aircraft displays maintained by the 16th Special Operations Wing (16 SOW) and describes the membership and responsibilities of the Air Park Council. The instruction also identifies the procedures for requesting additional aircraft and the criteria for placing monuments into the Air Park.

1. Objective. This instruction provides the guidance necessary to regularly inspect, clean, maintain, and paint all display aircraft in order to recognize the history of Hurlburt Field and Air Force Special Operations. This instruction also designates the Hurlburt Field Memorial Air Park Council to serve as the Executive Agency for the Hurlburt Field Memorial Air Park. Additionally, the instruction outlines procedures for maintaining and adding aircraft and monuments to the airpark.

2. General.

2.1. The overall custodial responsibility for display aircraft belongs to the 16 SOW/CC.

2.2. The 16th Mission Support Group Deputy Commander (16 MSG/CD) will serve as the 16 SOW Historical Property Custodian (HPC) on behalf of the 16 SOW commander. The 16th Equipment Maintenance Squadron Commander (16 EMS/CC) will be the assistant HPC. These two individuals will be the wing's primary points of contact for all issues concerning the airpark.

3. Responsibilities.

3.1. 16th Mission Support Group Deputy Commander will:

3.1.1. Maintain overall responsibility for all static display airpark activities.

3.1.2. Support the airpark with the resources necessary to satisfy the requirements of this instruction.

- 3.1.3. Sign all initial and renewal historical property agreements.
- 3.1.4. Ensure the airpark expenses are included in the annual wing budget.
- 3.1.5. Ensure an appointment letter is sent to the command historian (AFSOC/HO), naming the

16 SOW HPC and alternate HPC. This letter will also be kept on file in the airpark continuity folder in the 16 SOW History Office.

3.2. 16th Equipment Maintenance Squadron Commander/Fabrication Flight will:

3.2.1. Conduct monthly inspections of static display aircraft. The inspection and any discrepancies, such as paint, structural maintenance and wash requirements, will be documented on the applicable

AF Form 3581, USAF Museum Aerospace Vehicle Static Display Maintenance Log.

3.2.2. Perform required minor maintenance on static display aircraft.

3.2.3. Develop a repaint plan for the airpark based upon necessity, resource availability, and personnel availability.

3.3. 16 SOW History Office will:

3.3.1. Interface with AFSOC/HO and USAF Museum (USAFM) regarding all administrative requirements for the airpark.

3.3.2. Maintain aircraft color, markings, and insignias documentation and ensure they are approved by the AFSOC History Office then properly installed.

3.3.3. Maintain all static display documentation and records.

4. Air Park Council.

4.1. The Air Park Council will serve as the Executive Agent for the Hurlburt Field Memorial Air Park.

4.2. Air Park Council Membership will consist of the following:

4.2.1. 16th Mission Support Group:

4.2.1.1. 16th Mission Support Group Deputy Commander - Chair person.

- 4.2.1.2. 16th Civil Engineer Squadron Commander Grounds representative.
- 4.2.2. 16th Maintenance Group:

4.2.2.1. 16th Equipment Maintenance Squadron Commander - Aircraft representative.

- 4.2.3. 16 SOW Historian Recorder.
- 4.2.4. Advisors:
 - 4.2.4.1. Air Force Special Operations Command History Office representative.
 - 4.2.4.2. 16th Services Squadron/Community Support Flight representative.
 - 4.2.4.3. Local community representatives as approved by the 16 MSG/CC.

- 4.2.4.4. 16th Comptroller Squadron representative (as required).
- 4.2.4.5. 16th Contracting Squadron representative (as required).
- 4.2.4.6. 16th Logistics Readiness Squadron representative (as required).
- 4.2.4.7. 16 SOW Public Affairs representative (as required).
- 4.2.4.8. 16 SOW Staff Judge Advocate representative (as required).
- 4.2.4.9. 16 SOW Protocol representative (as required).
- 4.3. Airpark Council Responsibilities:

4.3.1. The Airpark Council will steer development, review, and approve improvements and ground displays, and review and approve acquisition of additional displays. The council will ensure preservation and maintenance of the airpark including systematic approach to resolve concerns and implement new initiatives.

4.3.2. The Airpark Council will convene on a quarterly basis, or more frequently as required, to discuss the current status of airpark aircraft and monuments, and any new items which need Air Park Council approval.

5. Aircraft Acquisition.

5.1. The Airpark Council will submit all requests for airpark aircraft additions in a letter signed by 16 SOW/CC, through the AFSOC History Office, to USAFM/MUX. The letter will include:

5.1.1. Mission Design Series (MDS), including the serial number, if requesting a particular air-frame.

5.1.2. Unit to which the airframe is assigned and years of assignment.

5.1.3. Justification based on how the aircraft is associated with Air Commando heritage; the aircraft must have been flown by Hurlburt Field personnel, and performed an Air Commando mission.

5.1.4. Any other data to support the request, including manner of display.

5.1.4.1. The AFSOC History Office will forward the request to USAFM/MUX with recommendations. If approved, USAFM/MUX adds the request to the consolidated request list and notifies 16 SOW of its status.

5.1.4.2. The USAFHP Director processes requests on a first-asked, first-served basis. When allocating scarce resources, however, the USAF Heritage Program (USAFHP) Director considers factors such as historical significance, scope, size of collection, indoor display capability, or the requester's capability to restore, maintain, or relocate an item.

5.1.4.3. The USAF Museum (USAFM) will not allocate aerospace vehicles to Hurlburt Field without obtaining a written request from 16 SOW and an AFSOC History Office concurrence.

5.1.4.4. The USAFM/MUX will coordinate delivery of aerospace vehicles with the losing organization and 16 SOW and prepares the required accountability documents. The USAFM/ MUC will then loan the airframe to 16 SOW.

5.1.4.5. The 16 SOW HPC will forward all aircraft operational records (AFTO 781 file, AFTO Forms 95, significant historical data, etc.) to USAFM/MUC upon delivery of the aerospace vehicle. The

16 SOW History Office will provide a copy of the unit's termination message to the AFSOC History Office and USAFM/MUC for aircraft being delivered from the AF operational inventory (AFOE).

6. Monuments.

6.1. Any private organizations desiring to place a monument in the Hurlburt Field Memorial Airpark must send a letter to the Airpark Council through the 16 SOW History Office. The letter will include a point of contact (POC) and the following information:

6.1.1. The background of the organization.

6.1.2. The specific nature to which the monument will address, and the proposed monument citation.

6.1.3. The dimensions (written and illustrated), construction, costs, and desired location of the monument.

6.1.3.1. The dimensions and construction for monuments being placed in the Hurlburt Field Memorial Air Park will meet the following criteria:

6.1.3.1.1. Monument Criteria:

6.1.3.1.1.1. At minimum, monuments shall consist of an 18 inch by 24 inch bronze plaque, mounted on a concrete base; the plaque will be mounted a minimum of 30 inches above finished grade.

6.1.3.1.1.2. The maximum space allowed for a large monument shall be 20 feet by 10 feet. In addition, monuments shall be no taller than 7 feet.

6.1.3.1.1.3. All monuments constructed of stone type material shall have a polished finish.

6.1.3.1.1.4. Organizations shall submit an AF Form 332 (CE Work Request) for all proposed monuments. Requests shall include final site approval and any site work required for the installation of the monument.

6.1.3.1.1.5. Organizations placing monuments within the Hurlburt Field Air Park shall provide at a minimum, quarterly cleaning of their respective monuments.

6.1.3.2. Offers of monuments will be processed IAW AFI 51-601, *Gifts to the Air Force*. 16 SOW will not accept monuments that come with limiting conditions, high maintenance costs, or that incur some explicit or implicit responsibility (for example, an agreement to display or exhibit, or to retain at one specific location). The Air Park Council will inform potential donors that the donation is to the Air Force historical property collection and not to the 16 SOW. 16 SOW will not be held liable for any damage resulting to a monument due to natural causes, such as storm damage from a hurricane. If a monument is destroyed, the replacement must conform to the new requirements set forth in this instruction.

6.2. The 16 SOW Historian will review and coordinate the monument proposal letter through 16th Civil Engineer Squadron (16 CES), 16 SOW Judge Advocate (16 SOW/JA), and 16 MSG/CD. The Air Park Council will meet and discuss the addition of the proposed monument. The council will review findings of 16 CES, evaluating monument compliance with appearance and dimension criteria, as well as suitability of the monument with existing displays. Additionally the council will review the 16 SOW Historian's validation of the proposed monument's historical accuracy, and significance with Air Commando Heritage. Finally, the council will consider the legal review of the proposal provided by the 16 SOW/JA. Upon review of these items, the council will make a recommendation to the 16 SOW/CC; the 16 SOW/CC will have final approval/disapproval authority.

6.3. If the request is disapproved, a letter will be sent to the requesting POC stipulating why the monument was not recommended for inclusion in the Hurlburt Field Memorial Air Park.

7. Aircraft Sponsor Program.

7.1. General. This program consists of Hurlburt Field units, and private organizations (subject to AFI 84-103), that have voluntarily agreed to sponsor airpark displays and maintain them with volunteer personnel. (See Attachment 1).

7.1.1. Sponsor nominations will be received and reviewed by the Airpark Council.

7.1.2. Airpark Council will forward recommendations to 16 SOW/CC for approval.

8. Maintenance of Airpark Aircraft.

8.1. General. Maintenance of the airpark aircraft will be conducted in accordance with AFI 84-103, chapter 7 and the appropriate Technical Order (TO) Dash 3 structural repair manual.

8.2. Annual Inspection. Visually check all external and internal areas, where accessible, for active corrosion. All working parts will be checked for a light coating of a protective lubricant (CPC). If CPC is missing, or not covering the entire polished surface, reapplication is necessary. The inspection will be done before the first quarterly wash by the sponsoring organization's project officer, and the assistant Hurlburt Field Historical Property Custodian (HFHPC) or their designated representative.

8.3. Quarterly Wash. Display aircraft will be washed quarterly by sponsoring organizations. The wash will include brightening any polish or gloss finished surfaces, and application of a soil barrier or wax to lengthen the period between paintings. Wax will not be used on any flat or matte finished surface.

8.3.1. Contact the assistant HFHPC to coordinate the date and time for washing of static display aircraft. The assistant HFHPC will instruct the organization's project officer on aircraft washing procedures. All aluminum surfaces will be cleaned and brightened. All cleaning and application of chemical coatings will be accomplished in accordance with applicable TOs and local base environmental regulations.

8.4. Monthly Inspection. All static displays will be checked for general condition, security, bird-proofing, and that drain holes are clear of obstructions.

8.5. Weekly Inspection. Inspect for evidence of forced entry or external tampering. If forced entry is found, then an inspection of the interior will be made for any missing equipment. Immediate notification will be made; a report will be filed with the security police, and a copy will be sent to 16 SOW and the USAF Museum at Wright-Patterson AFB OH.

8.6. Forms Annotation. All discrepancies and corrective action will be documented on the appropriate aircraft forms.

8.7. Tools and Equipment. Some hand tools and equipment required to work on the static display aircraft may be signed out from 16 MXG or designated Airpark crew chief. If special tools or equipment are needed, contact 16 EMS/MXM at least 48 hours in advance so equipment can be made available for use (i.e., air compressors, maintenance stands, etc).

9. Preparation Maintenance of Aerospace Vehicles.

9.1. Information. This instruction covers the requirements for the preservation and preparation of aircraft for exhibition or storage by an Air Force organization within the USAF Museum System (USAFMS), and by federal, state, municipal and civilian museums borrowing aircraft from the USAFMS. The term aircraft, as used in this instruction, refers to all aerospace vehicles.

9.1.1. These requirements are designed to return and/or maintain the aircraft in as near original configuration as possible, and to render them suitable for display.

9.1.2. Generally, all reconditioning, repairing, and refinishing will be accomplished in accordance with current Air Force directives and instructions. However, when it is unfeasible to return items to a completely serviceable condition, they will be processed so as to be suitable for display purposes. Deviations from this standard must be requested in writing and approved by the USAFM.

9.2. Security requirements. Aircraft on display and undergoing preparation for display shall be kept secure from unsupervised personnel. The aircraft will be maintained with sufficient security to insure it is protected from vandalism and theft, or unauthorized removal of components.

9.2.1. Any theft or unauthorized removal of components shall be immediately reported to the security forces. This must be followed by a report of the incident investigation within 30 days to the AF Museum.

9.2.2. To prevent unauthorized entry, all canopies, doors, access hatches, and access plates, except for one entrance door, will be permanently sealed shut by any of the following methods:

9.2.2.1. Bolting through the hatch to internal crossbars placed across the opening. These can be fabricated from sturdy steel strapping, channel iron, or other appropriate material.

9.2.2.2. Riveting the door securely to the jamb section.

9.2.2.3. Attaching hasps internally and securing with an inside padlock.

9.2.2.4. Whatever method is employed to secure doors and access hatches, the crevices remaining will be filled with caulking compound or elastic putty to prevent internal damage from weather.

9.2.2.5. The access door (that is not permanently sealed) must be secured by a hasp, welded or riveted in place. Multiple locks (two or three) are preferable, each with a separate key or combination. This technique will reduce the possibility of unauthorized access, but will provide emergency entrance for authorized personnel.

9.3. Maintenance Records.

9.3.1. Whenever items are permanently removed, the removal and disposition of such items shall be annotated on the AF Form 3581.

9.3.2. All work items that are accomplished shall be listed and signed off on the AF Form 3581.

9.3.3. Utilizing the AF Form 3581, a detailed accounting will be maintained by the borrower of all items removed or installed, with the date of installation/removal and the name of the individual accomplishing the work.

9.3.4. All maintenance records must be permanently retained by the borrower in a secure area conducive to preservation of the material.

9.4. References. The work requirements listed herein have been developed in accordance with the following directives: AFM 23-110, Vol. VI; TO 00-20-1; AFI 84-103; and applicable maintenance technical orders.

9.5. Demilitarize All Armament Systems and Explosive Material.

9.5.1. Disarm all systems in accordance with the applicable aircraft technical orders, and certify action on AF From 3580 or later equivalents. **Warning**: All disarming must be accomplished by a fully qualified aircraft ordnance systems specialist.

9.5.2. Aircraft intended for outdoor display must have all weapons (machine guns, cannons, etc.) removed. Only simulated weapons may be used.

9.6. Prepare Power-plant for Permanent Storage.

9.6.1. Prepare engines for permanent storage (ref. applicable -2 TO, TO 2R-1-11 and TO 2J-1-18).

9.6.2. Disconnect and drain all water and oil lines, tanks, valves, and pumps. Reconnect lines and reinstall plugs after draining (ref. applicable -2 TOs).

9.6.3. Clean excess oil and grease from exterior components of engines (ref. TO 2R-1-84).

9.6.4. Check power plant cowling for corrosion and damage. Repair and refinish as necessary for display (ref. applicable -3 TO).

9.6.5. Install intake and exhaust protective covers. Standard covers may be used if available, or suitable substitutes.

9.6.6. Clean and preserve propeller domes (ref. applicable -2 TO).

9.6.7. Clean deicer shoes and apply corrosion preventative compound.

9.6.8. Clean and check metal components of propellers for corrosion. Treat any affected areas and refinish to standard configuration.

9.7. Defuel and Purge Fuel Systems.

9.7.1. Defuel and purge all fuel tanks and check for safety with a combustible gas indicator. Source: Fire Department/Bio-Environmental (ref. TO 1-1-3).

9.7.2. Disconnect and drain all fuel lines, valves, sumps, pumps, etc. Reconnect lines after purging (ref. TO 1-1-3).

9.7.3. Spray or seal fuel tanks with a corrosion preventive compound (ref. TO 1-1-3).

9.7.4. Drain water injection systems and deicing fluids where ever found (ref. TO 1-1-13).

9.8. Prepare Landing Gear.

- 9.8.1. Release high pressure air from all landing gear shock struts (ref. applicable -2 TO).
- 9.8.2. Clean and preserve struts (ref. TO 1-1-691).
- 9.8.3. Clean all wheels and other landing gear components (ref. TO 1-1-691).
- 9.8.4. Check and remove corrosion. Repaint to standard configuration (ref. TO 1-1-691).
- 9.8.5. Check all tires for excessive wear and adjust pressure as required (ref. TO 4T-1-3).
- 9.8.6. Secure all retractable landing gears in the down position with positive locking devices.
- 9.9. Prepare Hydraulic Systems.

9.9.1. Dissipate hydraulic system pressure and release air from hydraulic accumulators (ref. applicable -2 TO).

9.9.2. Disconnect and drain all hydraulic lines, reservoirs, valves, and pumps. Reconnect and reinstall drain plugs after draining (ref. applicable -2 TO).

9.9.3. Clean all exposed finished surfaces of actuating rods, hydraulic cylinders, locks, and valves. Other hydraulic equipment will be cleaned and coated with corrosion preventative compound.

9.10. Prepare Oxygen Systems.

9.10.1. Release oxygen, both gaseous and liquid, from all systems (ref. applicable -2 TO).

9.10.2. Stow all oxygen masks, bottles, and hoses. Remove all oxygen masks from aircraft displayed outside and store in a secure area conducive to preservation.

9.10.3. Install dust plugs in filler valves and recharge hoses.

9.11. Prepare Electrical Systems.

9.11.1. Remove aircraft batteries and turn in to the battery shop, DRMO, or other authorized organization (ref. applicable -2 TO or as locally required).

9.11.2. Remove dry cell batteries from frequency meters and other equipment as applicable (ref. applicable -2 T.O.).

9.11.3. Pull all circuit breakers only if of the non-radioactive (white plastic shank) type. Contact bio-environmental engineering for a radiation survey of circuit breakers if in question, and for assistance with problems. Do not pull radioactive circuit breakers open, as deteriorated radium paint may be scattered in the process (ref. applicable -2 TO).

9.11.4. Cover all battery vent hole openings (ref. applicable aircraft -2 TO).

9.12. Prepare Electronic Systems.

9.12.1. Leave all electronic equipment that is not reclaimed installed on the aircraft.

9.12.2. Coat exposed metal whip antennas and mechanical items with a corrosion preventative compound.

9.12.3. Stow all connectors from equipment that has been removed.

9.13. Miscellaneous Utilities.

9.13.1. Remove bottles from all fire extinguisher systems; dissipate, and reinstall. **Caution:** Ensure all chemicals are disposed of in accordance with established base procedures (ref. applicable aircraft -2 TO).

9.13.2. Drain and clean entire drinking water system (ref. applicable aircraft -2 TO).

9.13.3. Drain, clean, and reinstall coffee jugs and water jugs.

9.14. Prepare Airframe.

9.14.1. Check airframe for corrosion and treat affected areas (ref. TO 1-1-691).

9.14.2. Clean all debris and foreign material from interior of fuselage (ref. TO 1-1-691).

9.14.3. Check airframe for external damage and repair (ref. applicable -3 TO).

9.14.4. Cover all openings that allow the entrance of water or other foreign matter which may have a corrosive or other deteriorating affect. Use standard covers if available, or suitable substitutes. Additional protection may be incorporated for aircraft placed in outside storage.

9.14.5. Check all fuselage, wing, and empennage drain holes for obstructions. Outside storage or display may necessitate additional drain holes to ensure proper drainage. Drain holes should be periodically probed to ensure they are not obstructed.

9.14.6. Clean and treat lavatory and relief facilities (ref. TO 1-1-691).

9.14.7. Check all astrodomes and plastic panels for crazing and damage; repair and/or replace as necessary. Clean all plastic panels thoroughly with soap and water (ref. TO 1-1-691).

9.14.8. Inspect for water trapped in lower portions of fuselage. If water is present, comply with instructions contained in applicable technical order for removal and correction.

9.15. Prepare Control Surfaces.

9.15.1. Check all metal control surfaces for corrosion and treat affected areas (ref. TO 1-1-691).

9.15.2. Check all control surfaces for external damage and repair areas as necessary for display purposes (ref. applicable -3 TO).

9.15.3. Inspect all fabric covered control surfaces; repair or recover as necessary (ref. TO 1-1A-11).

9.15.4. Check all control surfaces, attaching mechanisms for loose rivets and/or sheared bolts, and make necessary repairs (ref. applicable -3 TO).

9.15.5. Secure all moveable surfaces in a neutral position with positive locking devices.

9.16. Radiation Safety.

9.16.1. The status of a radiation survey will be verified by USAFM/MUS prior to the physical transfer of the aircraft/artifacts.

9.16.2. The interior of the aircraft must be secured, and all access prevented until the radiation survey is completed. No restoration activity inside or outside of the aircraft will be permitted until verification of the radiation status.

9.16.3. USAFM/MUS will require certification of completion of the radiation survey when an aircraft is initially acquired for display, with periodic monitoring and radiation logs maintained in accordance with AFI 84-103, Chapter 9.

9.16.4. Explanatory information regarding the radiation survey is provided in AFI 84-103, Chapter 9 and Attachment 4. Further questions may be directed to USAFM/MUR (Radiation), (513) 255-6930 or DSN 785-6930.

9.16.5. Surveys of aircraft displayed at civilian or non-USAF-operated museums will be accomplished by the USAF Museum Radiation Safety Officer, or an authorized USAF representative.

9.16.6. Following the required removal by USAF Museum radiation personnel of certain radioactive components from USAF owned aircraft and artifacts displayed at civilian or non-USAF operated museum, no radioactive components will be reinstalled by the borrowing museum. This prohibition also applies in cases when the aircraft arrives at the borrowing museum with a certification of no radioactivity (such as from the Aerospace Maintenance and Regeneration Center (AMARC)). If radioactive items are found to have been reinstalled during later inspections, the loan will be terminated.

9.17. Final Preparation.

9.17.1. Entire aircraft will be cleaned and refinished as required.

9.17.2. Secure aircraft by attaching tie down restraints to surface attaching points and to a major structural part of the item. Tie-down restraints, including surface attaching points, should be of sufficient strength to withstand the expected wind condition for the locality.

9.17.3. Place aircraft on a concrete or asphalt surface of sufficient strength to support its weight. This will not apply if the recipient, with the permission of the USAFM, has mounted the aircraft on a pylon attached to the aerospace vehicle's structural members.

9.17.4. Aircraft inside or outside that are normally supported on pneumatic tires should be placed on display stands of sufficient height to provide approximately 1 inch of clearance between the tire and the display surface; tires should be inflated and checked to maintain normal tire shape, or tires should be filled with a permanent tire filling compound which will maintain their inflated shape and support the weight of the item for the life of the casing.

9.17.5. Remove all antenna wires that could serve as a bird roost.

9.17.6. Install bird-proofing on all aircraft openings, including intake and exhaust covers.

9.17.7. Flag or cover all protruding objects of a hazardous nature.

9.18. Coordination.

9.18.1. Forward one signed copy of AF Form 3580, Aircraft Acceptance, Condition and Safety Certificate to USAFM/MUC.

9.18.2. Retain one copy of the AF Form 3580 for your permanent files.

9.18.3. Deviation from the procedures outlined in this attachment must be requested in writing and requires written approval prior to deviation.

9.18.4. A written notice of any restoration/preservation task extending beyond 180 days shall be submitted to USAFM/MUS. The notice shall include work to be completed and a projected completion date. A final report shall be submitted upon completion. An annual progress report shall be submitted if the project extends beyond a 12 month period.

NORMAN J. BROZENICK, JR., Colonel, USAF Commander

Attachment 1

AIRCRAFT AND SPONSORS

AIRCRAFT	SPONSOR UNIT	REMARKS
A1-E SKYRAIDER	16 CMS	
A-26 COUNTER INVADER		
AC-130A SPECTRE	16 SOS	
B-25J MITCHELL		
AC-119 SHADOW	19 SOS	
C-123K PROVIDER		
C-46 COMMANDO		
AC-47 SPOOKY	4 SOS	
H-3 JOLLY GREEN	16 HMXS	
O-1E BIRD DOG	39 IOS	
O-2A SKY MASTER	9 SOS	
T-28 TROJAN		
OA-37B DRAGONFLY	16 CONS	
OV-10 BRONCO	16 LRS/LGRF (fuels)	
U-10A COURIER	319 SOS	
UH-1P HUEY	20 SOS	