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This publication implements Air Force Policy Directive (AFPD) 21-1, *Maintenance of Military Materiel*; and is consistent with AFPD 13-5, *Air Force Nuclear Enterprise*. It is the basic Air Force instruction (AFI) for all weapon system and support equipment maintenance management guidance. It provides the minimum essential guidance and procedures to safely and effectively maintain, service, and repair weapon systems and support equipment. This publication applies to all PACAF units and AFRC/ANG (ARC) Classic Associate units. It does not apply to United States Space Force. This publication may be supplemented at any level, but supplements to this publication are not required to be sent to the OPR for review unless they have deviations. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (T-2, T-3) number following the compliance statement. Waivers for T-2 or non-tiered compliance items will be sent to PACAF/A4M, [pacaf.a4mv3@us.af.mil](mailto:pacaf.a4mv3@us.af.mil). See Department of the Air Force Manual (DAFMAN) 90-161, *Publishing Processes and Procedures*, for a description of the authorities associated with tier numbers. Refer recommended changes and questions about this publication

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**(KADENAAB)** This supplement implements Pacific Air Force Instruction (PACAFI) 21-105, *Fabrication Program*, 19 January 2023, is supplemented as follows: This publication provides guidance and procedures for the corrosion control and prevention program at Kadena Air Base (AB) and defines the paint enhancement program. It prescribes organizational and functional responsibilities for the implementation and maintenance of an effective local program and provides guidance and procedures on Kadena markings for aircraft. It applies to all assigned, attached or associated units of the 18th Wing (18 WG), Kadena AB, Japan that maintain aircraft, aircraft systems, equipment, support equipment, components, and access the flightline area regardless of Air Force Specialty Code (AFSC). Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with (IAW) the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the office of primary responsibility (OPR) using the DAF Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 from the field through the appropriate functional chain of command.

### ***SUMMARY OF CHANGES***

This publication has been substantially revised and needs to be completely reviewed. Updates include but are not limited to references, incorporation of plain language concepts in accordance with DAFMAN 90-161, movement of **Chapter 6** to **Chapter 4** for flow of document, and incorporation of previous Guidance Memorandum content.

**(KADENAAB)** This publication has been substantially revised and needs to be completely reviewed. Major changes include chapter number revisions, clarification for on-equipment pre-paint preparation, responsible parties for aiding in preparation, approved aircraft painting configuration, Aerospace Ground Equipment (AGE) Flight Chief Responsibilities, Aircraft Maintenance Unit (AMU) responsibilities, Plans and Scheduling Responsibilities, Munitions Flight Chief responsibilities, Wing Corrosion Manager (WCM) responsibilities, and Fabrication Flight Chief Responsibilities.

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## Chapter 1

### AIRCRAFT METALS TECHNOLOGY PROGRAM (2A7X1)

#### 1.1. MAJCOM/A4M Responsibilities.

1.1.1. The designated Senior Noncommissioned Officer (SNCO) will manage the Aircraft Metals Technology (AMT) program and perform the following duties:

1.1.1.1. Manage the welder certification program in accordance with T.O. 00-25-252, *Intermediate Maintenance and Depot Level Maintenance Instructions - Aeronautical Equipment Welding*, and this instruction.

1.1.1.2. Coordinate inter/intra-command Aircraft Metals Technology TDY manning assistance requests.

1.1.1.3. Develop and coordinate command policy and procedures for Aircraft Metals Technology functions.

1.1.1.4. Coordinate inter/intra-command 2A7X1 equipment transfers.

1.1.1.5. Forecast and ensure scheduling of 2A7X1 supplemental training.

1.1.1.6. Support the Air Force Metals Technology Office by participating in equipment evaluations, field surveys, Integrated Process Teams, Product Improvement Teams, working groups, and advisory board meetings as requested.

1.1.1.7. Serve as the MAJCOM voting authority during the 2A7X1 Specialty Training Requirements Team (STRT) and Utilization and Training Workshop (U&TW).

#### 1.2. Maintenance Group Commander (MXG/CC) Responsibilities.

1.2.1. Serve as certifying official for unit level welding examinations. The MXG/CC may delegate responsibility in writing in accordance with T.O. 00-25-252.

#### 1.3. Maintenance Squadron Commander Responsibilities.

1.3.1. Ensure funding is available for Aircraft Metals Technology weld certification requirements at an Air Logistics Center (ALC) when local certification capabilities do not exist.

#### 1.4. Fabrication Flight Chief Responsibilities.

1.4.1. Ensure all journeyman, craftsman or civilian equivalent welders assigned to the Aircraft Metals Technology section are Level II certified in accordance with T.O. 00-25-252 to perform welding operations in the following base metal groups: I (Carbon and Low Alloy Steel), II (Stainless Steels), III (Nickel--Base Alloys), IV (Aluminum Base Alloys), V (Magnesium--Base Alloys), VI (Titanium--Base Alloys), VII (Cobalt--Base Alloys).1.4.1.1. Level I certification may be obtained and utilized prior to achieving Level II certification if necessary to meet mission requirements.

1.4.1.1. All SrA-TSgt personnel PCSing to PAS codes KU0RFD4Z and OP0RFWNM are required to be aircraft and missile weld certified in groups 1, 2, 3, 4, 5, 6, and 7 in accordance with T.O. 00-25-252 and should be valid for at least 24 months after the transfer effective date (TED). Airmen will provide a copy of their DD Form 2757, *Welding Examination Record to outbound assignments.*"

1.4.2. Determine if welders should be qualified locally or by an ALC. If qualification will be accomplished at an ALC, ensure funding is forecasted.

## **1.5. Aircraft Metals Technology Section Chief Responsibilities.**

1.5.1. Ensure assigned Aircraft Metals Technology personnel maintain welding certifications outlined in [paragraph 1.4.1](#).

1.5.2. Coordinate requests for an ALC or other qualified organization to qualify welders. If qualification and certification is accomplished locally, coordinate the certification requirements with the nondestructive inspection (NDI) section to ensure x-ray capability exists and required image quality indicators are present.

1.5.3. Ensure correct completion of DD Form 2757, *Welding Examination Record*, for all shop welders.

1.5.3.1. The Observing Official will be a 5 or 7-level Aircraft Metals Technology technician or civilian equivalent welder.

1.5.3.2. The Examining Official (not the NDI examiner) must be a 7-level Metals Technology technician or civilian equivalent welder and will sign and date block 18.

1.5.3.3. The Welder's Supervisor will function as the Testing Official. The Welder's Supervisor may also perform Examiner duties and date/sign block 18, when applicable.

1.5.4. Ensure journeyman are weld certified not later than 12 months following award of 5-skill level. Qualified individuals that PCS from another MAJCOM that did not have the same requirements will be certified within 6-months of assignment.

## **1.6. Additive Manufacturing.**

1.6.1. Local Purchase Equipment. Equipment items for Additive Manufacturing (AM) process will not be purchased locally without the knowledge and approval of the AF Metals Technology Program Office (MTO), AFLCMC/EZPT-MTP, Robins AFB, GA and Command Fabrication Functional Manager.

1.6.1.1. Consumable support items and replacement parts may be purchased at any time without approval.

1.6.2. Guidance for the use of AM to build replacement parts is prescribed in AFI 63-101/20-101, *Integrated Life Cycle Management*.

1.6.3. Reference T.O. 34A-1-1, *Additive Manufacturing Qualification of Technicians, Machines and Facilities*, for AM methods and requirements for training, equipment, process controls, T.O. 34A-2-1, *Metals Additive Manufacturing General Procedures and Process Controls*, for standard AM disciplines, and T.O. 34A-3-1, *Polymers Additive Manufacturing, General Procedures and Process Controls*.

1.6.4. Additively manufactured aircraft parts require System Program Office (SPO) approval.

1.6.4.1. Approved aircraft parts will be listed in the weapon system's illustrated parts breakdown (IPB) as an alternate AM part number and appropriate Source Maintenance, and Recoverability (SMR) code (i.e., MFO or MOO), reference T.O. 00-25-195, *AF Technical Order System Source Maintenance, and Recoverability Coding of Air Force Weapons, Systems, and Equipment* and Table 1-1, AF SMR Coding Matrix.

1.6.4.2. A Technical Assistance Request (TAR) or 107 will provide authorization for limited use of non-listed substitutes (supplies, components, support equipment, etc.) to prevent work stoppages, in accordance with T.O. 00-25-107, *Maintenance Assistance*.

1.6.4.3. The Joint Engineering Data Management Information Control System (JEDMICS) is the current repository for Technical Data Packages (TDPs). Accessing <https://af-jedmics.navair.navy.mil/> and entering the appropriate drawing number (i.e., 201874532) will download the complete TDP, including the embedded build file, required to additively manufacture the part.

## Chapter 2

### NONDESTRUCTIVE INSPECTION PROGRAM (2A7X2)

#### 2.1. MAJCOM/A4M Responsibilities.

2.1.1. The designated SNCO will manage the NDI program and perform the following duties:

2.1.1.1. Manage command NDI and Oil Analysis programs (OAP).

2.1.1.2. Coordinates inter/intra-command NDI TDY manning assistance requests.

2.1.1.3. Develop and coordinate command policy and procedures for NDI and OAP functions.

2.1.1.4. Coordinates inter/intra-command 2A7X2 equipment transfers.

2.1.1.5. Forecast and ensure scheduling of 2A7X2 supplemental training.

2.1.1.6. Support the Air Force NDI Office by participating in equipment evaluations, field surveys, Integrated Process Teams, Product Improvement Teams, working groups, and advisory board meetings as requested.

2.1.1.7. Serve as the MAJCOM voting authority during the 2A7X2 Specialty Training Requirements Team (STRT) and Utilization and Training Workshop (U&TW).

#### 2.2. MXG/CC Responsibilities.

2.2.1. Ensure civilian NDI technicians are NAS 410 certified.

#### 2.3. Maintenance Squadron Commander Responsibilities.

2.3.1. Ensure only trained 2A7X2 personnel or NAS 410 certified civilians operate NDI equipment and perform NDI assessments.

2.3.2. Ensure personnel performing NDI are certified in accordance with DAFI 21-101, *Aircraft and Equipment Maintenance Management* and NAS 410 as applicable.

#### 2.4. NDI Section Chief Responsibilities.

2.4.1. Ensure all equipment required to perform NDI on assigned weapon systems and support equipment is authorized, available and operational.

2.4.2. Ensure NDI Quality Assurance (QA) Augmentees are properly trained in their additional duty.

2.4.2.1. NDI QA Augmentees will conduct Personal Evaluations (PE) utilizing PE checklists located on the NDI SharePoint at <https://usaf.dps.mil/teams/22399/QA/Forms/AllItems.aspx?viewpath=%2Fteams%2F22399%2FQA%2FForms%2FAllItems%2Easpx>. Upon completion of a PE, Augmentees will retain completed documentation within the NDI section until the next PE is performed on that specific method.

2.4.3. Forecasts funding for personnel to attend training courses and participate in applicable NDI conferences or working groups.

### Chapter 3

## AIRCRAFT STRUCTURAL MAINTENANCE AND CORROSION CONTROL PROGRAM (2A7X3)

### 3.1. MAJCOM/A4M Responsibilities.

3.1.1. The designated SNCO will manage the Aircraft Structural Maintenance (ASM) and Corrosion Control programs and perform the following duties:

3.1.1.1. Develop and coordinate command policy and procedures for ASM and Corrosion Control functions.

3.1.1.2. Coordinates inter/intra-command ASM TDY manning assistance requests.

3.1.1.3. Coordinates inter/intra-command 2A7X3 equipment transfers.

3.1.1.4. Forecast and ensure scheduling of 2A7X3 supplemental training.

3.1.1.5. Support the Air Force Corrosion Prevention and Control Office (AFCPCO) by participating in equipment evaluations, field surveys, Integrated Process Teams, Product Improvement Teams, working groups, and advisory board meetings as requested.

3.1.1.5.1. Coordinate with AFCPCO to ensure command corrosion survey is accomplished at a minimum of every 5 years.

3.1.1.6. Serve as the MAJCOM voting authority during the 2A7X3 Specialty Training Requirements Team (STRT) and Utilization and Training Workshop (U&TW).

### 3.2. Wing Commander Responsibilities.

3.2.1. Review and ensure all aircraft paint waivers and nose art requests have been routed through local Public Affairs and Wing Historians prior to submission to PACAF/A4M.

### 3.3. Maintenance Group Commander Responsibilities.

3.3.1. Ensures adequate facilities, equipment, material, and funding are available to support a sound corrosion prevention and control program. The minimum requirements are:

3.3.1.1. Provide a facility for preparation and maintenance painting of assigned aircraft on a year-round basis in accordance with Unified Facilities Criteria (UFC) 4-211-02, *Corrosion Control and Paint Finishing Hangars*.

3.3.1.2. Ensures requirements outlined in DAFMAN 32-1084, *Standard Facility Requirements*, are met for support equipment (SE) and aircraft small parts. This capability can be incorporated in the aircraft corrosion control facility if space permits.

3.3.1.3. Ensures facility meets local, state, federal Environmental Protection Agency, and host nation requirements in conjunction with current National Emission Standards for Hazardous Air Pollutants [40 CFR Part 61 and 63].

3.3.2. Ensures adequate wash rack facilities are available to wash aircraft on a year-round basis. This requirement can be satisfied with any one or more of the following:

3.3.2.1. A specially designed corrosion control facility completely enclosed, heated with environmentally controlled ventilation and waste disposal systems, and equipped with all utilities necessary for accomplishing all facets of aircraft corrosion control.

3.3.2.2. An environmentally compliant enclosed or covered wash rack.

3.3.2.3. An outside wash rack may be used on an interim basis when weather conditions permit and when approved by Base Civil Engineer.

3.3.3. Determines organization responsible for management of aircraft wash facility.

3.3.4. Ensures frequency of wash/rinse cycles are maintained in accordance with T.O. 1-1-691, *Cleaning and Corrosion Prevention and Control, Aerospace and Non-Aerospace Equipment*, and revised as necessary based on changes in mission and location.

3.3.4.1. Report any aircraft wash overdue with official memo to MAJCOM Corrosion Program Manager. Within this memo include aircraft tail number(s), date of last wash, reason for overdue condition, and corrective action taken to prevent further occurrences.

3.3.5. Ensures Plans, Scheduling & Documentation (PS&D) section(s) schedule aircraft washes through Integrated Maintenance Data System (IMDS) or by other automated means.

3.3.6. Ensures Quality Assurance (QA) adequately evaluates corrosion control programs through inspection and maintenance follow-up evaluations.

3.3.6.1. Ensures QA evaluates a minimum of 10% of all aircraft washes.

3.3.6.1.1. **(Added-KADENAAB)** The 18th Maintenance Group (18 MXG) Contract Field Team (CFT) Contract Officer (COR) will ensure all Quality Assurance Surveillance Reports (QASP) fulfill this 10% requirement. The COR/Quality Assurance Representative (QAR) officer will execute the minimum wash inspection requirement IAW this regulation and the QASP.

3.3.6.1.2. **(Added-KADENAAB)** The COR/QAR will evaluate all quality control measures and CFT's abidance to the Performance Work Statement (PWS), Local Operating Instructions (LOI) and QASP. Additional QARs may be appointed to supplement this program.

3.3.7. Appoints by letter, a Wing Corrosion Program Manager to ensure all facets of corrosion prevention are being conducted throughout the wing.

### **3.4. Wing Corrosion Program Manager Responsibilities.**

3.4.1. The Wing Corrosion Manager will be a 2A773, 2A775, 2A790, or civilian equivalent.

3.4.1.1. Upon appointment, the Wing Corrosion Manager will accomplish training as prescribed in AFI 36-2650.

3.4.2. The Wing Corrosion Program Manager serves as the wing focal point for all aircraft and SE cleaning, corrosion and organic coatings related information and taskings. The Wing Corrosion Program Manager will organize, direct, and manage the wing/group corrosion management program in accordance with DAFI 21-101, DAFI 63-140, *Aircraft Structural Integrity Program and Air and Space Equipment Structural Management*, T.O. 1-1-691, T.O. 1-1-8, *Application and Removal of Organic Coatings Aerospace and Non-Aerospace*



*Equipment*, T.O. 1-1-689-3, *Cleaning and Corrosion Control Volume III Avionics and Electronics*, T.O. 35-1-3, *Corrosion Prevention and Control, Cleaning; Painting, and Marking of USAF Support Equipment (SE)*, applicable weapon system specific –3 (structural repair manual), -23 (corrosion prevention and control manual), and this instruction.

3.4.2.1. **(Added-KADENAAB)** Will oversee the paint touch-up program for all aircraft assigned to ensure Aircraft Maintenance Unit (AMU)/Helicopter Maintenance Units (HMUs) are properly scheduling aircraft for paint touch-up or corrosion inspections based on a “worst is first” schedule if the Mission Design Series (MDS) technical order does not identify a specific time-requirement.

3.4.3. Before reassignment or retirement, the Wing Corrosion Manager will ensure their successor is appointed early enough prior to DEROS (not later than 60 days long tour/30 days short tour) to provide an effective turnover of the corrosion program. The outgoing corrosion manager must confer with the Fabrication Flight Chief and ASM supervisors to identify a replacement. A copy of the new appointment memo will be sent to PACAF/A4M, Command Fabrication Functional/Corrosion Manager, within 60 days of the appointment.

3.4.4. Ensures creation of a wing supplement to this instruction to include, but not limited to the following:

3.4.4.1. MAJCOM, NAF, Wing, OG, and Fighter/Bomber Squadron commander aircraft designation and marking requirements of identified aircraft.

3.4.4.2. Local unit marking requirements e.g., tail stripes, crew names, etc.

3.4.4.3. Aircraft paint identification placard size, shape, and information requirements.

3.4.5. Ensures corrosion inspections are accomplished during each phase/periodic inspection for aircraft and equipment assigned.

3.4.6. Ensures corrosion prevention and treatment procedures are performed within technical order requirements.

3.4.6.1. In the event there are no weapons system specific post wash corrosion inspection requirements, units must establish local requirements.

3.4.6.1.1. **(Added-KADENAAB)** CFT will perform all post-wash corrosion inspections IAW the PWS/LOIs and will identify discrepancies with owning unit. If the PWS/LOIs do not specify this requirement, the owning unit will be responsible for this task. All aircraft assigned to Kadena AB have these requirements listed in the MDS specific technical orders.

3.4.7. Ensure only Qualified Product List (QPL) and/or the Qualified Product Database (QPD) authorized wash agents are utilized for overall and spot washes. Use of unapproved commercial or household/janitorial cleaners is strictly prohibited.

3.4.8. In conjunction with the local Supply/Hazmart pharmacy, ensure only products from QPLs/QPDs approved for aircraft/aerospace equipment are being used.

3.4.9. Ensures required equipment is obtained for an efficient and effective corrosion prevention and control program.

3.4.9.1. **(Added-KADENAAB)** Will liaise between CFT and Fabrication Flight Government Purchase Card Approving Officials and Card Holders to assist CFT with timely equipment and supply purchases to ensure proper maintenance scheduling and continued operations.

3.4.9.1.1. **(Added-KADENAAB)** CFT will maintain full responsibility for ensuring proper inventory management and will immediately brief the COR on any issues that could impact maintenance scheduling which are not solved in a timely manner.

3.4.9.2. **(Added-KADENAAB)** Will provide effort to improving the corrosion control capabilities at Kadena by assisting CFT with research of equipment to improve operations.

3.4.10. Ensures corrosion related training courses (initial and refresher) are administered as intended by the MAJCOM or AFI. Local corrosion training programs may be initiated as deemed necessary due to local corrosive environment, weapon system corrosion susceptibility and forward operating environments.

3.4.10.1. **(Added-KADENAAB)** Due to the highly corrosive environment at Kadena AB, all maintenance personnel will conduct annual Corrosion Prevention and Control training. AFSC 2A7X3 personnel are exempt from this requirement due to an in-depth coverage in Career Development Courses. Computer Based Training (CBT) is available on MyLearning, website <https://lms-jets.cce.af.mil/moodle/>. Units may choose to track this requirement under the Integrated Maintenance Data System (IMDS) course code 125004 (initial) and 032380 (annual) or under GO81 course code ACFT 000915.

3.4.11. Determines the adequacy of corrosion control work cards for assigned equipment based on mission and location.

3.4.12. At units utilizing wash contractors, the Wing Corrosion Manager must be thoroughly familiar with contract specifications, applicable technical orders, and inspection/acceptance criteria. The wing corrosion manager should be included in the coordination process of all new/updated wash contracts.

3.4.13. Maintain records of all approved waivers with full length color photographs, score sheets of maintained aircraft, and wing corrosion manager appointment letter.

3.4.14. Establish and chair a local corrosion prevention working group to formalize the wing corrosion management program. Working groups may meet as frequently as necessary to maintain an effective program but will meet at least annually. This working group should meet approximately 90 days prior to the next scheduled applicable weapons system Corrosion Prevention Advisory Board (CPAB) to formalize action items. Minutes will be published and are recommended to be maintained at least 3 calendar years for continuity purposes.

3.4.14.1. As a minimum, membership will include the unit corrosion manager, flight line (owning unit) maintenance supervisors, PS&D personnel, ASM supervisors, Aerospace Ground Equipment (AGE) supervisors, and appropriate QA representatives.

3.4.14.2. Submit CPAB action items to the Command Fabrication Functional/Corrosion Manager. Action items may be submitted throughout the year and must focus on structural integrity, extended service life, and improved repair techniques for the weapon system.

3.4.15. Serve as wing corrosion program Point of Contact (POC) for all outside agencies.

### 3.5. Fabrication Flight Chief Responsibilities.

#### 3.5.1. Recommend a Wing Corrosion Manager to the MXG/CC.

3.5.1.1. Forecast funding for wing corrosion control manager attendance at Corrosion Control Working Groups, CPABs, Aircraft Structural Integrity Programs (ASIPs), and other pertinent meetings as required. Ensure Fabrication representation for ASIP and CPAB conferences in person or via telecom.

3.5.1.2. **(Added-KADENAAB)** Designate a facility manager for all corrosion control facilities to act as the subject matter expert and coordinate all building modifications, projects, and all large 332s, in order to maintain government oversight of large-scale facility projects. This responsibility may be given to the wing corrosion manager if deemed appropriate. CFT will assign a facility manager for each of their facilities in order to maintain the facility IAW the current PWS/LOIs. CFT will be responsible for submitting to the 18th Civil Engineer Squadron (18 CES), all work orders designed for continued use of the facility (i.e. light bulbs, exit lights, door locks, Air Handling Unit filter replacements, etc.).

### 3.6. Aircraft Structural Maintenance (ASM) Section Chief Responsibilities.

3.6.1. Ensures no other maintenance is accomplished on aircraft or equipment within environmentally controlled/cordoned off areas during corrosion prevention treatment utilizing hazardous/toxic materials requiring the use of specialized personal protective equipment.

3.6.2. Submits CPAB agenda items to MAJCOM ASM Manager.

3.6.3. Requests depot assistance in accordance with T.O. 00-25-107 through the MAJCOM weapon system manager with an information copy to PACAF/A4M when corrosion treatment/repairs exceed technical order limits.

3.6.4. Ensures Bioenvironmental Engineering conducts initial baseline comprehensive evaluations and provide annual follow-ups to determine adequacy of work center controls for occupational hazards. Briefs all structural personnel of survey results and maintains records of this survey in the work center.

3.6.5. Appoints a qualified 2A753/2A755 or higher technician, or civilian equivalent, as the Wash Rack Facility Manager. This manager will ensure proper cleaning materials, equipment, and supplies are maintained in accordance with applicable technical orders, DAFI 21-101 and PACAF supplements.

3.6.5.1. **(Added-KADENAAB)** Daily upkeep of both wash racks will be maintained by the CFT. The WCM or COR will also be appointed as the wash rack facility manager for program oversight.

3.6.6. Ensure a corrosion control facility housekeeping program is developed and followed in accordance with DAFI 21-101.

3.6.6.1. **(Added-KADENAAB)** The CFT COR/QAR office will ensure CFT develops and follows a corrosion control facility housekeeping program IAW DAFI 21-101, *Aircraft and Equipment Maintenance Management*.

**3.7. Wash Rack Facility Manager Responsibilities.**

- 3.7.1. Ensures the required number and size of fire extinguishers are available and serviceable.
- 3.7.2. Ensures grounding points are inspected and approved in accordance with T.O. 00-25-172, *Ground Servicing of Aircraft and Static Grounding Bonding*.
- 3.7.3. Ensure fall protection equipment is available, used and maintained in accordance with DAFMAN 91-203, *Air Force Occupational Safety, Fire, and Health Standards*, to allow coverage of all surface areas of aircraft during washing operations.
- 3.7.4. Ensures aircraft wash rack has cleaners identified in weapon system specific technical data. When cleaning products are not listed in weapon system specific technical data, ensure at least two types of approved cleaners in accordance with T.O. 1-1-691 are properly used, to include proper mix ratio and the correct cleaner for each area cleaned.
- 3.7.5. Ensures wash rack facility and surrounding area is kept clean and properly maintained.
- 3.7.6. Procure personal protective equipment used during wash process. Maintains wash rack facilities and equipment in serviceable condition (e.g., water hoses, pumps, air hoses, powered wash equipment, SE, Personal Protective Equipment (PPE), etc.). This may not apply to units utilizing wash contracts.

**3.8. Wash Crew Supervisor Responsibilities.**

- 3.8.1. Provides daily safety briefings explaining hazards associated with wash rack operations.
- 3.8.2. Ensure aircraft wash crews are task trained and qualified. All training and qualifications must be documented in the personnel's training records.
- 3.8.3. Ensure proper safety equipment, PPE and cleaning materials are serviceable and properly used in accordance with DAFMAN 91-203.
- 3.8.4. Enters the requirement for wash, performs cleanliness inspection, signs the wash completion and enters the lubrication requirement in the AFTO Form 781A, *Maintenance Discrepancy and Work Document* or other electronic form of documentation.
- 3.8.5. Ensure that fall protection is serviceable and inspected prior to use in accordance with DAFMAN 91-203.
- 3.8.6. Ensure aircraft are properly grounded as required in accordance with TO 00-25-172 and weapon system-specific technical data.
- 3.8.7. Inspects all wash rack equipment for serviceability, i.e., water hoses, pumps, air hoses, powered wash equipment, support equipment, etc. prior to use.
- 3.8.8. Ensure wash rack facility, surrounding area and equipment is clean and equipment is properly stored before and after use.

**3.9. Maintenance Plans, Scheduling, and Documentation (PS&D).**

- 3.9.1. Ensure frequency-of-cleaning/wash cycles are established for assigned aircraft to maximize corrosion prevention. Monitors aircraft wash schedules to eliminate overdue washes. Unit wash cycles will not exceed the maximum wash cycles listed in T.O. 1-1- 691, unless coordinated and approved IAW T.O. 00-25-107 or other published T.O. guidance.

3.9.2. **(Added-KADENAAB)** Will brief all early/overdue (5 days or more) washes at the weekly Shared Resources meeting to ensure proper MXG awareness.

3.9.3. **(Added-KADENAAB)** Ensures all aircraft are scheduled on a 30-day wash cycle IAW T.O. 1-1-691, *Cleaning and Corrosion Prevention and Control, Aerospace and Non-Aerospace Equipment*.

3.9.4. **(Added-KADENAAB)** Ensures aircraft are scheduled for wash in conjunction with all phase, periodic or isochronal inspections, and prior to aircraft paint.

3.9.5. **(Added-KADENAAB)** Will not schedule aircraft for wash until the mid-cycle has elapsed since the last date washed. The only exception will be short-notice VIP or cross-country tasking, when directed by the 18th Maintenance Group Commander (18 MXG/CC) or associated Director of Operations.

3.9.6. **(Added-KADENAAB)** Ensures all aircraft are scheduled for clear water rinses IAW T.O. 1-1-691 as follows:

3.9.6.1. **(Added-KADENAAB)** Clear Water Rinse (CWR) every 15 days.

3.9.6.2. **(Added-KADENAAB)** CWR after the last flight of the day when low level flight under 3,000 feet over salt water was accomplished or two or more take-offs and/or landings in a single day which require low level flight over salt water was accomplished. If Pacific Air Force Command (PACAF) approved rinse cycle waiver is in effect (to terminate rinsing after last flight of the day, based on Okinawa water table level), a 15-day CWR will be completed as a minimum.

3.9.6.3. **(Added-KADENAAB)** Coordinate with the CFT Production Superintendent to develop a monthly paint schedule. Aircraft will be based on paint scores provided by the CFT for F-15, HH-60 aircraft and a “worst is first” priority.

3.9.6.4. **(Added-KADENAAB)** Schedule no more than four aircraft for wash during one duty day at Bldg 3448, to include Saturdays. Saturday washes and surge operations may be approved by the CFT COR only and must be submitted with 24-hour notice to the CFT IAW the PWS/LOIs.

### **3.10. Aircraft Maintenance Unit (AMU)/Fighter Generation Squadron (FGS) Responsibilities.**

3.10.1. Appoint an experienced/qualified wash crew supervisor.

3.10.1.1. **(Added-KADENAAB)** The CFT will perform all wash crew supervisor roles IAW the PWS/LOIs.

3.10.2. Ensure trained wash crew supervisors are present throughout the duration of aircraft washes.

3.10.3. Provide a task trained, appropriately equipped and qualified aircraft wash crew.

3.10.4. The Wing Corrosion Manager and owning unit supervisors/managers train and qualify personnel on aircraft washing and cleaning. Training will be locally developed based on environmental conditions and specific MDS assigned.

3.10.5. The wash supervisor ensures the facility and equipment is cleaned and properly stored at completion of each wash.

3.10.6. **(Added-KADENAAB)** Ensures all owning units will:

3.10.6.1. **(Added-KADENAAB)** Download all external munitions.

3.10.6.2. **(Added-KADENAAB)** Ensure all aircraft are grounded, chocked, and properly positioned on the wash rack.

3.10.6.2.1. **(Added-KADENAAB)** **HEAVY SIDE.** Two aircraft must be in place and fully prepared for wash by 0700.

3.10.6.2.2. **(Added-KADENAAB)** **FIGHTER SIDE.** Three Aircraft must be in place and prepared for wash by 0700. Due to contract obligations, upon notification of the respective aircraft being ready for pickup, the AMU/HMU will immediately remove the respective aircraft to provide a slot for the fourth wash of the day. The fourth wash must be in place by 1330 or risk being canceled due to contract requirements.

3.10.6.3. **(Added-KADENAAB)** Notify the CFT Production Superintendent of wash schedule changes no later than (NLT) 1600 the day prior to the change.

3.10.6.4. **(Added-KADENAAB)** Install all required safety pins and locks prior to wash. **Note:** All landing gears doors will be opened and pinned prior to placement on the wash rack.

3.10.6.5. **(Added-KADENAAB)** Ensure the aircraft canopy is closed and sealed; ensure all panels are installed and fasteners are flush with the surface.

3.10.6.6. **(Added-KADENAAB)** Ensure all required name changes are put in the forms prior to the aircraft being put on the wash rack.

### **3.11. Quality Assurance Responsibilities.**

3.11.1. Evaluate at least 10% of all aircraft washes and at least 10% of all AGE washes for compliance with applicable technical data.

3.11.2. Evaluate the quality of 10% of all aircraft and equipment corrosion inspections.

3.11.3. Periodically review wash rack cleaning agents for QPL/QPD compliance.

3.11.4. Contracting Officer Representative (COR) for aircraft washes will evaluate at least 10% of all aircraft washes. COR should maintain a file of discrepancies for consideration during contract rewrites. If a current contract specifies a different level of inspection than that specified herein, the contract will take precedence. Future contracts will incorporate the 10% inspection rate as a minimum.

3.11.5. The COR will use locally developed aircraft wash cleanliness forms and checklists to evaluate contract wash compliance.

3.11.6. Contract washes will be signed off by authorized personnel.

3.11.7. **(Added-KADENAAB)** The CFT COR/QAR office will be responsible for all aforementioned requirements under Quality Assurance Responsibilities (reference **paragraph 3.11.**). Additional QARs may be appointed to supplement this program if increased inspections or oversight is desired.

### 3.12. AGE Flight Chief Responsibilities.

- 3.12.1. Ensure AGE work center personnel attend corrosion training.
- 3.12.2. The corrosion manager, in concert with the AGE supervisor and unit maintenance training manager, will develop a corrosion prevention and control training curriculum. The training is available at <https://367trss.cce.af.mil>.
- 3.12.3. The corrosion manager, in conjunction with the AGE supervisor, will determine the training interval. The training interval will be at least annually.
- 3.12.4. Establish and enforce an effective corrosion program on assigned AGE and SE.
  - 3.12.4.1. **(Added-KADENAAB)** All AGE will be inspected for corrosion utilizing each equipment's applicable periodic inspection work cards. In addition, AGE that is sent to their corrosion contract for scheduled washes and due an annual corrosion control inspection (CCI) will receive a paint score and documented in Defense Property Accountability System (DPAS) by an AGE corrosion contract representative.
- 3.12.5. Aircraft structural maintenance and AGE supervisors determine repainting requirements.
  - 3.12.5.1. Complete over coating of equipment is accomplished on an as needed basis. AGE will not be over coated solely for cosmetic purposes unless the AGE Flight Chief and Fabrication Flight Chief determine it is required. Equipment will be prioritized based on "worst is first" unless downing the equipment would affect AGE Flight mission essential levels.
  - 3.12.5.2. **(Added-KADENAAB)** Equipment that is received from supply in the old Support Equipment standard color (Olive Drab [OD] Green), will not be scheduled for overcoat until it receives a CAT 3/4 paint score, unless waived by the MXG/CC. An OD unit may be scheduled if there are no CAT 3/4 units on Kadena.
- 3.12.6. Owing work center personnel may treat small chips in the paint with Corrosion Prevention Compounds (CPC) listed in T.O. 35-1-3. For more permanent repairs of small, chipped areas, use authorized coating systems that are contained in items such as but not limited to: SEMPENS, Preval compressed air spray packs, Clip-Pacs, Brush and Roller, or AkzoNobel Spray 2 Fix aerosol can. Larger areas will be treated by the aircraft structural maintenance work center or if applicable, contracted sources.
  - 3.12.6.1. Units will familiarize themselves with AGE painting materials and processes in accordance with T.O. 35-1-3 prior to awarding off-base contracts to get AGE painted. Units will verify specifications for primer and topcoat, and color number requirements and ensure that these are addressed in the contract.
  - 3.12.6.2. **(Added-KADENAAB)** Due to the highly corrosive environment at Kadena, the owing work center will treat all chipped paint or bare metal areas with the approved rust convertors listed in T.O. 35-1-3, *Corrosion Prevention and Control, Cleaning; Painting, and Marking of USAF Support Equipment (SE)*. The Corrosion Prevention Compound application will not provide long term protection for assets stationed at Kadena AB.
- 3.12.7. AGE SE will be painted in accordance with T.O. 35-1-3.

3.12.8. Ensure an automated system is used to schedule and document AGE painting. A historical entry will be made into the automated system upon complete repainting of equipment.

3.12.9. Enforce the proper use of approved cleaning compounds in accordance with T.O. 35-1-3 and the QPL or QPD.

3.12.10. **(Added-KADENAAB)** Will be familiar with the corrosion contract PWS/LOIs and will ensure the proper number of AGE assets requiring refurbishment as identified in the PWS/LOIs are dropped off to the contractor operations. Units must be dropped early enough in the month to allow the time required for full refurbishment or risk not being included in the monthly deliverable count.

3.12.10.1. **(Added-KADENAAB)** The AGE Flight Chief and the CFT/AGE corrosion contract Production Superintendents will come to a mutual agreement on the approved refurbishment timeframe for each type of equipment. Any disagreements will be deferred to the COR for further review.

3.12.10.2. **(Added-KADENAAB)** Owning work centers are responsible for delivery of units prepared for CFT corrosion treatment as identified in the PWS/LOIs. The location will be coordinated with the CFT Production Superintendent. Work centers will also be responsible for pickup following the CFT corrosion treatment. Units prepared for AGE corrosion contract refurbishment and washes will be prepped and placed in designated locations determined in the PWS. AGE corrosion contract is responsible for transportation to and from the wash racks and refurbishment site.

### **3.13. Unit Corrosion Control Program Requirements.**

3.13.1. Owning activities will wash and clean their aircraft and support equipment.

3.13.1.1. **(Added-KADENAAB)** During aircraft paint weeks, corrosion control capability will be reduced and only critical support equipment units will be performed.

3.13.1.2. **(Added-KADENAAB)** All aircraft engine test cell adapter kits require 30–90 day nondestructive inspections for cracked welds. Some units have been approved by their technical data for the application of zinc oxide (Presto Black BST4 and MIL-PRF-81309G) and some units still require polyurethane coatings. In order to prevent excessive maintenance for frequent inspections, those units that are not approved for zinc oxide will only require application of no more than 4 mils of epoxy primer MIL-P-23377 after inspection. This will facilitate reduced downtime of equipment for future inspections without continued stripping of the welded areas.

3.13.2. Wing Corrosion Program Manager and/or ASM personnel will assist the owning activities in their corrosion prevention efforts by accomplishing scheduled corrosion inspections on aircraft, support and test equipment.

3.13.3. Only Aircraft Structural Maintenance personnel will perform aircraft inspection work cards specified for accomplishment by Aircraft Structural Maintenance in the -6 T.O. or within ALIS on the F-35. All maintenance personnel, regardless of Air Force Specialty Code (AFSC), will examine each part removed and inspect the inside of all exposed areas for corrosion. When corrosion discrepancies are discovered affecting aircraft structural integrity, safety of flight/operation, or are beyond the using organization's capability to evaluate/repair, an aircraft structural maintenance specialist will be requested.

3.13.4. Maintenance personnel who remove/install aircraft panels and doors must ensure seals are serviceable and sealant applied to panels and fasteners as specified in applicable aircraft technical orders.

3.13.5. Maintenance personnel will report all corrosion deficiencies through applicable MIS in accordance with 00-20 series technical orders or ALIS. Accurate documentation of maintenance actions in support of the corrosion control program is essential to support future manning, equipment requirements, training, and parts/material procurement requirements.

3.13.5.1. **C-130 units:** NDI, ASM and QA personnel will use the Inspection, Crack/Corrosion and Repair Reporting (ICARR-3D) software to make inputs to the Automated Inspection, Repair, Corrosion, and Aircraft Tracking (AIRCAT) database for all NDI directed by technical orders; cracks and corrosion exceeding blending limits of Structural Repair Manual; and structural repairs in accordance with 1C-130A-6/1C-130J-6. Corrosion within blending limits of the Structural Repair Manual will not be documented. This is an Aircraft Structural Integrity Program (ASIP) requirement. See <https://c130aircat.robins.af.mil> for program instructions and information on ICARR-3D. Report all C-130 discrepancies in ICARR-3D.

### **3.14. Propulsion Flight/Element Responsibilities.**

3.14.1. As required, establish a statement of work with the Fabrication Flight Chief defining the local repair process. Ensure personnel are trained in the tasks required to complete composite repairs in the T.O. 1-1-690, *General Advanced Composite Repair Processes Manual*, and applicable technical data.

3.14.2. As required, establish a maintenance plan to ensure work being accomplished is safe and has bioenvironmental approval. Follow Unified Facilities Criteria (UFC) 4-211-02, *Aircraft Corrosion and Paint Facilities*, guidance for proper exposure controls to personnel.

## Chapter 4

### LOW OBSERVABLE AIRCRAFT STRUCTURAL MAINTENANCE PROGRAM (2A7X5)

#### 4.1. MAJCOM/A4M Responsibilities.

- 4.1.1. Designate a SNCO to perform the following duties:
  - 4.1.1.1. Manage command Low Observable (LO) programs
  - 4.1.1.2. Coordinates inter/intra-command LO TDY manning assistance requests.
  - 4.1.1.3. Develop and coordinate command policy and procedures for LO functions.
  - 4.1.1.4. Coordinates inter/intra-command 2A7X5 equipment transfers.
  - 4.1.1.5. Forecast and ensure scheduling of 2A7X5 supplemental training.
  - 4.1.1.6. Represent MAJCOM for all applicable 2A7X5 issues at LO conferences and meetings.
  - 4.1.1.7. Serve as the MAJCOM voting authority during the 2A7X5 Specialty Training Requirements Team (STRT) and Utilization and Training Workshop (U&TW).

#### 4.2. Wing Commander Responsibilities.

- 4.2.1. Ensures funding is available to support annual radar cross section (RCS) flight test requirements.

#### 4.3. Maintenance Group Commander Responsibilities.

- 4.3.1. Establish and maintain an effective low observables maintenance program.
  - 4.3.1.1. Ensure scheduling of aircraft downtime for LO reduction at the appropriate time based on overall fleet health and/or SAS/LOHAS damage priority screen.
- 4.3.2. Appoint a fully qualified 2A775 technician or civilian equivalent to QA who is solely focused on LO maintenance processes. Requirement is 1 per AMU/FGS.
  - 4.3.2.1. LO QA personnel must possess a valid program security clearance in order to fully perform QA duties.
- 4.3.3. Ensure PS&D sections schedule F-22 and F-35 annual aircraft audits.
- 4.3.4. Monitor annual LO F-22 and F-35 audit trends to ensure fleet LO mission capable status is accurately documented and reported.
- 4.3.5. Support RCS test events with required aircraft and maintenance personnel. This includes Signature Management Program (SMP) flight testing, Acceptance Test Facility (turntable) revisits and Repair Verification Radar testing.
  - 4.3.5.1. Units must confirm aircraft will support SMP at least 90 days prior to event.
- 4.3.6. Approval authority for flying aircraft in Aero Only configuration; ensures procedures contained in F-22A TOD and F-35 Interim Maintenance Procedure F35-IMP-A0110510105-960A-A are followed.

4.3.7. Work closely with the OG/CC to balance flying requirements with maintenance capability to prevent an uncontrollable LO backlog.

4.3.8. Ensure all personnel who directly perform maintenance on F-22 and F-35 aircraft complete annual LO awareness, panel handling training through the Maintenance Training Flight (MTF).

4.3.9. Ensure hot wash/lessons learned information is documented for each Theater Security Package (TSP) deployment and shared with like units/MAJCOMs.

#### **4.4. Fabrication Flight Chief.**

4.4.1. Use LO Field Training Detachment (FTD) training availability/capacity at every opportunity to elevate capability over the long term and provide recommended changes as required.

4.4.2. Forecast funding to attend and participate in applicable LO meetings, CPABs and other structural related programs/meetings.

4.4.3. Ensure all personnel exposed to LO work environments comply with OSHA, AF, MAJCOM, and wing policies on hygiene standards and preventing contamination of common areas outside of the direct work environment.

4.4.4. Report fleet LO mission capable status ([Attachment 5](#)) to the applicable MAJCOM weapon system team daily. Fleet SAS/LOHAS average reported must not include non-possessed aircraft.

#### **4.5. LO ASM Section Chief Responsibilities.**

4.5.1. Maintain a comprehensive training plan ensuring assigned personnel develop and maintain proficiency in all facets of LO finishes, metallic structures, composite repair, corrosion control, signature assessment, and electronic maintenance information system data entry commensurate with awarded skill level.

4.5.2. Ensure LO ASM personnel receive pre-placement, special purpose, periodic and termination occupational physicals as deemed necessary by local Medical Group Aero Medical Services in accordance with AFI 48-145, *Occupational and Environmental Health Program*.

4.5.3. Ensure LO ASM personnel provide updated information required to obtain and retain special program security access to the unit or group security manager in a timely manner.

4.5.4. Ensure an LO composite repair facility security training plan is developed with initial and annual training to be used for each individual working within the section.

4.5.5. Develop a dedicated LO OML inspection crew to maintain inspection consistency and inspector proficiency.

4.5.5.1. Establish an OML team rotation plan to ensure all LO personnel remain proficient.

4.5.6. F-22s Request depot assistance in accordance with T.O. 00-25-107 through the ACC weapon system manager. F-35s Request depot assistance through ALIS utilizing the CRM process.

4.5.7. Ensure accuracy of LO mission capable status documentation and reporting **Attachment 3/Attachment 7**. This includes establishment of a SAS data integrity team to ensure data is routinely cross checked for accuracy.

4.5.8. Appoint an LO production supervisor to manage scheduling and workload, **Attachment 6**, on each shift.

4.5.9. Ensure no other maintenance is accomplished on the aircraft, equipment, or within the environmentally controlled/cordoned-off areas during corrosion prevention/treatment or coatings restoration when hazardous/toxic materials are in use requiring the use of specialized personal protective equipment.

4.5.10. Ensure deficiency reports (DR) are accomplished as necessary in accordance with T.O. 00-35D-54, *USAF Deficiency Reporting, Investigation, and Resolution*.

#### **4.6. LO Quality Assurance Responsibilities.**

4.6.1. Establish a comprehensive inspection program to ensure the integrity of LO maintenance and SAS documentation associated with mission capable status reporting. This includes frequent personal evaluations of aircraft OML inspections, SAS documentation and LO repair processes in accordance with technical order guidance.

4.6.2. Identify/report all LO training and process deficiencies to the Fabrication Flight Chief.

4.6.3. Include periodic participation in annual aircraft LO audit inspections, **Attachment 4**, as part of Maintenance Standardization Evaluation Program.

4.6.4. Update Wing leadership on LO maintenance quality and potential improvement areas during the Health of Fleet (HoF) brief if applicable.

#### **4.7. Low Observable/Composite Repair Facility (LO/CRF) Manager Responsibilities.**

4.7.1. Reporting facility operation deficiencies such as the Heating, Ventilation and Air Conditioning (HVAC) systems, compressed and breathing air systems, electrical systems, plumbing and drainage systems within the LO/CRF and on assigned real property of the LO/CRF.

4.7.2. Perform tasks related to the overall management and operations of the LO/CRF, including energy management and equipment inventory.

4.7.3. Inspect facility for safety and maintenance issues that require repair as required by technical orders and Air Force instructions. Ensure all measures are taken to maintain security accreditation of facility as required.

4.7.4. Submit facility work orders through Civil Engineer (CE) Customer Service. In cases of established/approved contract maintenance for facilities, contact contractor for emergency or out of cycle maintenance. This includes warranty repairs and required maintenance.

4.7.4.1. Track the completion of contractor and CE work orders. Maintain record of all work to include response time and time required until satisfactory completion of work.

4.7.4.2. Perform escort duties or provide escorts as needed for contract maintenance personnel within special access areas of the LO/CRF.

#### 4.8. LO Support Responsibilities.

4.8.1. Stocks supplies, consumables, tools, and equipment to support LO aircraft inspection, maintenance, and surface treatment. Processes supply requests, tracks MICAP due-outs, monitors bench stock, conducts bench stock and adjusted stock level reviews, and operates tool storage areas. In addition, the Support Section NCOIC will ensure a section due-out release point and holding bins are established. Supports CTK/Special tools, E- tools and test equipment.

4.8.2. Maintain bench and operating stocks.

4.8.3. Control and maintain TMDE in accordance with T.O. 33-1-27, *Maintenance Support of Precision Measurement Equipment*, T.O. 33K-1-100-2-CD-1, *TMDE Calibration Interval Technical Order and Work Unit Code Reference Guide*; T.O. 00-20-14, *Air Force Metrology and Calibration Program* and other applicable technical directives concerning the use, care, handling, transportation, and calibration of TMDE owned by the section.

4.8.4. Provide monthly critical support equipment status update to squadron supervision.

4.8.5. Maintain QRL as needed and provide it to technicians.

4.8.6. Track and process DIFM assets.

4.8.7. Manage reusable containers in accordance with DAFI 24-602 Volume 2, *Cargo Movement*, and T.O. 00-20-3, *Maintenance Processing of Repairable Property and the Repair Cycle Asset Control System*.

4.8.8. Manage section's hazardous material (HAZMAT) program.

4.8.8.1. Organize and coordinate effective shipping and staging operation.

4.8.8.2. Issue/turn in materials to/from workers using the tool accountability system (TAS).

4.8.8.3. Maintain records and documentation actions to ensure compliance with applicable directives.

## Chapter 5

### GENERAL INFORMATION

#### 5.1. Aerospace Vehicle Coating and Marking Requirements.

5.1.1. Paint schemes/configurations and USAF standard aircraft markings will be applied in accordance with T.O. 1-1-8 and the applicable aircraft technical order.

5.1.2. Coating System Scoring and Maintenance. All units will score aircraft coating systems to determine frequency of topcoat application.

5.1.2.1. All aircraft coating systems except F-22 and F-35 will be evaluated/rated every 6 months for appearance/coating system integrity using applicable technical data or a locally developed system.

5.1.2.2. The exterior of aircraft must be clean prior to paint scoring.

5.1.2.3. **(Added-KADENAAB)** Aircraft Condition Paint Scoring.

5.1.2.4. **(Added-KADENAAB)** The CFT team will rate the condition of the aircraft after each wash is completed to prioritize aircraft scheduled to receive touch-up on a worst-first basis. Use guidance in the applicable T.O. 1H-60(H)G-23, *System Peculiar Corrosion Control*, and T.O. 1F-15A/EX-23, *System Peculiar Corrosion Control*, to score aircraft.

5.1.2.5. **(Added-KADENAAB)** Condition 1 (0-5%): Little or No touch-up is required.

5.1.2.6. **(Added-KADENAAB)** Condition 2 (5.1-10%): Minor touch-up is required.

5.1.2.7. **(Added-KADENAAB)** Condition 3 (10.1%-15%): Major Touch-up is required.

5.1.2.8. **(Added-KADENAAB)** Condition 4 (15.1%+): Full system overcoat is required.

5.1.2.9. **(Added-KADENAAB)** Aircraft Paint Scheduling: Aircraft paint scheduling will be conducted at the weekly shared resource meeting and will develop a flow plan to ensure condition 4 aircraft are painted in a timely manner. The results of the shared resource meeting will be published in the weekly flying and maintenance schedule.

5.1.2.10. **(Added-KADENAAB)** For scheduling purposes, aircraft downtime required for preparation and a complete aircraft paint touch-up is as follows:

5.1.2.11. **(Added-KADENAAB)** F-15 aircraft and HH-60 Helicopters: 5 days + 1 wash day.

5.1.2.12. **(Added-KADENAAB)** Aircraft scheduled for Periodic Depot Maintenance within 12 months will not have a complete repaint performed regardless of the paint score condition; only minor maintenance paint touch-up on these aircrafts will be accomplished to prevent corrosion.

5.1.3. Supervisors will use ratings to determine corrosion treatment/paint scheduling priority. **(T-2)**

5.1.3.1. All aircraft painting will be scheduled on a worst first basis to maintain coating system integrity and aircraft appearance.

5.1.4. Units are required to adopt maintenance-painting techniques (i.e., spot painting and sectionalized painting as stated in T.O. 1-1-8) to maintain aircraft corrosion protection and appearance between overcoats.

5.1.5. Fully over coated aircraft will be documented in applicable MIS and the individual aircraft AFTO Form 95, *Significant Historical Data*, for tracking purposes.

5.1.6. Units with large aircraft should rely on spot maintenance painting and sectionalized painting between depot cycles to maintain the coating system integrity.

5.1.7. **(Added-KADENAAB)** Prior to aircraft paint touch-up procedures, each AMU/HMU will:

5.1.7.1. **(Added-KADENAAB)** Ensure aircraft has received a full wash after the last sortie prior to paint.

5.1.7.2. **(Added-KADENAAB)** Ensure aircraft is defueled, safe for hangar entry and remove external stores (e.g., pylons and launchers), battery is disconnected and aircraft electrical systems are de-energized prior to being towed into the corrosion control facility. External fuel tanks must be thoroughly drained to prevent spills/leakage and center of gravity problems during sand/paint operations.

5.1.7.3. **(Added-KADENAAB)** Inspect aircraft after wash to highlight areas requiring further cleaning or maintenance for fuel and hydraulic leaks. Repair leaks to the maximum extent possible. Leaks that cannot be stopped will have preventive measures taken to prevent the leak from reaching aircraft external surfaces.

5.1.7.4. **(Added-KADENAAB)** Ensure aircraft are in the Corrosion Control facility NLT 0700 on the first day of a scheduled paint; also ensures all open cannon plugs are capped off and secured. If the aircraft is washed the same day it is scheduled for paint, ensure aircraft is pulled from wash rack and position in paint booth NLT 1600. After the aircraft is hangared, there will be no further maintenance performed until painting is complete and the aircraft is released back to the owning AMU/HMU unless prior coordination with the 18th Equipment Maintenance Squadron, Lead Production Superintendent (18 EMS/MXM).

5.1.7.5. **(Added-KADENAAB)** Aircraft must have: speed brake lowered, tail hook raised and stowed when towed into the paint facility.

5.1.7.6. **(Added-KADENAAB)** Ensure the dedicated crew chief loads the aircrew, crew chief and one assistant crew chief names in IMDS and spelled correctly; no nicknames or call signs are authorized.

## 5.2. Equipment Inspections.

5.2.1. All sections within the Fabrication Flight are authorized (not required) to utilize Process Control Automated Management System (PCAMS). It can be utilized to track maintenance, inspections, and discrepancies for shop equipment. PCAMS can be found on the NDI SharePoint site at <https://usaf.dps.mil/teams/22399/SitePages/Home.aspx>.

## Chapter 6

### AIRCRAFT MARKING POLICY

#### 6.1. Paint Schemes/Configurations and USAF Standard Markings.

6.1.1. Paint schemes/configurations and USAF standard markings will be applied in accordance with the applicable aircraft technical order, aircraft drawings, T.O. 1-1-8, and this instruction.

6.1.2. **(Added-KADENAAB)** Aircraft that receive a full paint at Kadena AB will have a local Military Specification (MILSPEC) identification placard (block design) applied to all assigned aircraft *along with* reapplying the most current depot applied paint block. See [Attachment 21](#).

#### 6.2. Exterior Markings/Coatings.

6.2.1. All aircraft markings will be maintained intact, legible, and distinct in color (not faded). Command standardization of markings by MDS is of primary concern. **(T-2)**

6.2.2. All exterior aircraft markings must match the gloss level of the basecoat. No approved diffuse clear coats are available; low-gloss materials must be used for all markings on aircraft with lusterless paint schemes. **(T-2)**

6.2.3. Operational markings and structural coating/corrosion maintenance will take precedence over cosmetic refinements; markings, such as nose art, tail flash, and Dedicated Crew Chief (DCC) names should be considered lowest priority work. **(T-2)**

6.2.4. When large sections of an aircraft are repainted (i.e., entire wing, fuselage, or empennage) they will be documented in applicable MIS and the individual AFTO Form 95. **(T-2)**

6.2.5. Review applicable weapon system technical data for weight and balance (W&B) requirements.

6.2.6. **Stenciling.** Markings may be applied using stencils. Refer to T.O. 1-1-8 to determine the compatibility of stenciling paints, paint finishes and decal applications.

#### 6.3. Aircraft Mandatory Markings (Mobility Aircraft).

6.3.1. Letters and Numerals. Unless specified in other guidance, these markings may be applied using any style letter/numeral (font) deemed appropriate by the Wing Commander. Size and location must remain standardized for all wing-assigned aircraft.

6.3.2. Standard Air Force Markings. Mandatory markings will be applied in accordance with T.O. 1-1-8, weapon system drawings, if applicable, weapon system specific T.O., and the applicable table in this instruction. [Attachment 2](#) list the size, location, and color of markings by aircraft type. For identification, placement, and color of mandatory markings other than those identified in this instruction, refer to the weapon system technical orders and system drawings.

6.3.3. US Flag. Paint may be used only when high-quality templates or silk-screen processes are used. Flag decals can be obtained by going online to the Defense Logistics Agency Document Services website at <https://www.dso.documentservices.dla.mil>. Customer support may be reached at 1-866-736-7010. Flag decals may be purchased with the International Merchant Purchasing Authorization Card. There is no form number or part number for flag decals; therefore a “short title” should be used. The short title is either “21-inch by 40-inch Matte Finish Flag Decal” or “24-inch by 48-inch Matte Finish Flag Decal,” as applicable. Flag decals have a one-year shelf life. For best results, use 3M edge sealer part number 4150 (designed for polyester decal films).

#### **6.4. Optional Markings (Mobility Aircraft).**

6.4.1. When used, the following optional markings will be applied in accordance with the applicable tables in this instruction. Changes/standardization of optional markings may be done on an attrition basis to minimize workload, aircraft availability, and environmental impact. **Attachment 2** list the size, location and color of markings by aircraft type. **(T-2)**

6.4.2. Approval Authority for Optional Markings. Final approval for all permanent optional markings will come from the Fabrication Functional Manager and PACAF/A4M. All levels of supervision have the responsibility to review the markings for tastefulness, appropriateness, and adherence to copyright laws.

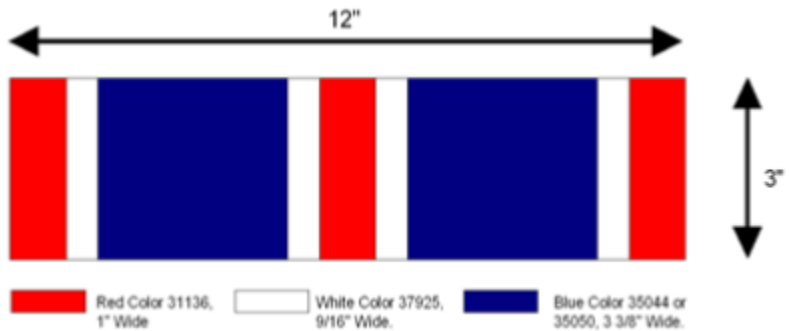
6.4.2.1. Nose Art: E-mail request with WG/CC approval, local Public Affairs and Wing Historian coordination, justification, the design, and tail number to [pacaf.a4mv3@us.af.mil](mailto:pacaf.a4mv3@us.af.mil) for TMT coordination and PACAF/A4M approval.

6.4.3. Nose Art. Nose art is authorized on one aircraft per flying squadron, plus the wing pride aircraft. Additionally, one aircraft per wing may have the “Let’s Roll” graphic applied as nose art (not to exceed three feet in diameter); it may be on one of the above aircraft, or in addition to the above aircraft. Nose art is not permitted on any aircraft flying missions where local populations may consider it sensitive or offensive. Art will reflect a theme of civic and community pride, be distinctive, symbolic, and designed and maintained to the highest quality standards. Positioning of nose art is at the discretion of the Wing Commander; however, it must be forward of the wing leading edge and not interfere with any mandatory markings. Nose art should be approximately two-thirds the size of the fuselage national star insignia, not to exceed three feet in diameter. All nose art applied to wing aircraft will be of standard size and location. Nose art and tail flash designs must be approved prior to installation.

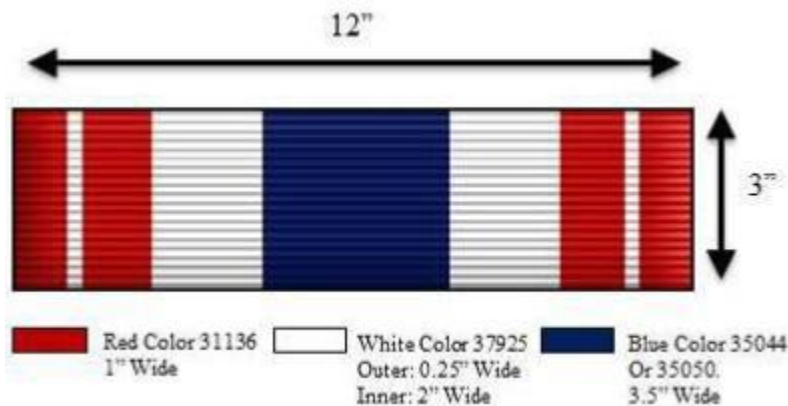
6.4.3.1. On aircraft with lusterless paint schemes, nose art and tail flash must be applied using lusterless paint and/or decals.

6.4.4. Aircraft Names. Aircraft Names are authorized on PACAF aircraft only after approval by USAF/CV. The proposed name must either have a national or military theme or honor a locale adjacent to a PACAF base or aircraft manufacturing point. Route recommendations through your WG/CC to PACAF/PA; include the proposed name and detailed justification. If applied in addition to nose art, the aircraft name and nose art must be complementary; the font, size, and location may be changed to complement the nose art.

6.4.5. Air Force Outstanding Unit Award. The Air Force Outstanding Unit Award (AFOUA) may be applied if applicable. AFOUA decals, with and without oak leaf clusters, are available from <https://dso.dla.mil/>.

**Figure 6.1. Outstanding Unit Award.**

6.4.6. Air Force Meritorious Unit Award (MUA) may be applied immediately adjacent to the AFOUA if applicable.

**Figure 6.2. Meritorious Unit Award.**

6.4.7. Boom Elevator Markings. Boom elevator markings may be applied in accordance with the appropriate table, weapon system specific T.O., and/or weapon system drawings with the approval of the Wing Commander.

6.4.8. Wing Pride Aircraft. Each Wing Commander may designate one aircraft to be the wing pride aircraft; this aircraft is authorized the additional markings stated below.

6.4.8.1. Wing CC/CV names and Group Commander's names (list all group commanders or none) may be used in place of the DCC names. The wing designator may be included in the name block. Prior to deployment or flight into a combat zone (including transient aircraft), all names will be removed from the aircraft. **(T-2)**

6.4.8.2. Tail Flash may contain colors/numbers of all squadrons assigned to the wing but must remain within the tail band stripes specified in the applicable table. Refer to [paragraph 6.3](#). **(T-2)**

6.4.8.3. Wing mascot/logo may be applied as nose art (in addition to the one per flying squadron), [paragraph 6.5.5](#) applies.

6.4.9. Dedicated Crew Chief (DCC)/Assistant Dedicated Crew Chief (ADCC). If elected, DCC and ADCC names will be applied in accordance with T.O. 1-1-8 and placed on interior placards or exterior of the aircraft. See [Attachment 2](#). Units will be consistent when selecting interior or exterior placards. **(T-2)** Aircraft will adhere to sanitization methods for all aircraft in accordance with T.O. 1-1-8. **(T-2)**

6.4.9.1. Prior to deployment into a combat zone, regardless of tour length, all marking will be sanitized in accordance with T.O. 1-1-8. Consistency across the wing is paramount. MAJCOM/A4, WG/CCs, and MXG/CCs are authorized to direct the removal of all names for the duration of contingency operations. **(T-2)**

6.4.9.1.1. Transient aircraft. PACAF defines transient as an aircraft that temporarily stops at a destination and has a final destination elsewhere. **(T-2)**

6.4.9.1.2. Aircrew and DCC/ADCC exterior name markings are authorized to remain on aircraft when transiting a combat zone for 30 days or less. **(T-2)**

6.4.9.2. The name will consist of the abbreviated rank, first name, and last name. The first name can be either the given proper name (William, Robert, Daniel, etc.) or the more familiar shorter form (Bill, Bob, Dan, etc.). The use of an individual's middle name or initial is optional. For extremely long names, it is permissible to use the individual's rank, first initial and last name or to use smaller letters to accommodate the entire name.

6.4.9.3. Nicknames are not authorized. Size and font are at the MXG/CC's discretion; size not to exceed 2 ½ inches; standardized within the wing. Unit mascot graphics, i.e., razorback and eagle head (outlines or silhouettes) may be used as the forward edge of the placard or crew chief block. For standardization purposes, either all or none of the wing aircraft will bear the graphic.

6.4.10. AMU/FGS/Squadron/Wing Colors. Each operational squadron may have its colors and/or logos applied within the boundaries of the tail stripes, or the entire wing may share one tail stripe design.

## **6.5. Aircraft Mandatory Markings (Combat Aircraft).**

6.5.1. **Command Insignia.** The application of the command insignia on aircraft is mandatory. Fighter type aircraft will use subdued insignias. Size and location of command insignias by MDS are specified in [Attachment 2](#).

6.5.2. **Organizational Insignia.** The application of wing insignia is mandatory. The insignia will be applied to both sides of the forward fuselage. The operational squadron insignia may be applied on the left side in place of the wing insignia. Wing and squadron insignias will be subdued for fighter aircraft.

6.5.3. **Distinctive Unit Identifier Marking.** The application of the unit identifier is mandatory for all Combat Air Force (CAF) aircraft unless otherwise directed. ACC/A4M is the office of primary responsibility (OPR) for the assignment of AF unit designators as directed by T.O. 1-1-8. The primary factor used to determine unit identifier is the aircraft/unit assignment location.

6.5.3.1. The unit identifier will be applied in accordance with guidelines T.O. 1-1-8 or the applicable weapon system T.O. and guidelines contained in [Attachment 2](#) of this instruction.

6.5.4. **Paint Identification Placard.** The paint identification block is a mandatory marking and is intended to provide important paint information, i.e., type of paint and associated hazards.

6.5.4.1. **(Added-KADENAAB)** Aircraft that receive a full paint at Kadena AB will have a local Military Specification (MILSPEC) identification placard (block design) applied to all assigned aircraft along with reapplying the most current depot applied paint block. See [Attachment 21](#).

6.5.5. **Nose Numbers.** Aircraft nose numbers will be in block or Helvetica letters, not to exceed four digits. Specific location and size for each different type aircraft is contained in [Attachment 2](#). The paint material(s) used to apply nose numbers will have the same gloss or subdued requirement as the base aircraft coating.

## 6.6. Aircraft Optional Markings (Combat Aircraft).

6.6.1. **Tail Stripe.** Tail stripes are used to identify aircraft operation squadrons and are authorized as a wing option on all aircraft except F-35 aircraft.

6.6.2. Each flying squadron will have a standardized tail stripe unique to that squadron, and the use of the same tail stripe by two or more squadrons within a wing is not permitted. **(T-2)** Commanders' aircraft, as defined in [paragraph 6.6.4](#), may have a unique tail stripe, but must remain within the guidelines of this instruction.

6.6.2.1. Tail stripe will be applied to the upper portion of the vertical stabilizer in the form of a straight stripe. Width will not exceed 9 inches on fighter aircraft.

6.6.2.2. Tail stripe may be any color or pattern, and may contain a logo with the following exceptions:

6.6.2.2.1. Tail stripe on F-22 aircraft will be subdued and must meet all Technical Order Data (TOD) requirements.

6.6.2.2.2. Tail stripe on aircraft bearing the American Flag will be solid in color and will not contain any logo, name, or lettering.

6.6.2.2.3. On aircraft with multiple vertical stabilizers, the tail stripe may be of either a wrap-around style on both vertical stabilizers or applied to the outboard sides of each vertical stabilizer.

6.6.2.2.4. Units will not repaint tail flashes/stripes or F-35 special unit markings during deployed operations unless otherwise directed by the combatant commander. **(T-2)**

6.6.3. **Aircrew and Crew Chief Names.** Aircrew and dedicated crew chief/assistant names may be applied to all command aircraft as a unit option but must be removed prior to deployment from home station in direct combat zones or when participating in contingencies that may subject aircraft to hostile fire abroad.

6.6.3.1. Units are encouraged to keep name changes to the minimum as the removal/application of decals can cause damage to the coating system and is especially of concern on LO platforms/surfaces as it can negatively affect the radar cross section.

6.6.3.2. Application of nicknames, punctuation, and/or call signs is not authorized.

6.6.3.3. All aircraft in the wing will be standard in color, style, and size of letters, but will not exceed 3 inches in height. The only exception is that designated commander aircraft may have different color, style and/or size lettering, but will not exceed 3 inches in height.

6.6.3.4. A background block for pilot/crew chief names may be used, should give a subdued appearance, and be in contrasting color to the section of the aircraft where applied. It may be other than rectangular in shape and to further an MDS theme, the block may be preceded by a design depicting the MDS e.g., F-15 eagle head, F-16 falcon head, etc.

6.6.4. Commander's Aircraft Markings. Commander's aircraft referred to in this instruction are those designated as Numbered Air Force (NAF), Wing, OG, and commanders of flying squadrons (Fighter/Reconnaissance). The NAF Commander may select one wing within the command to have one aircraft specifically marked; it will be the only aircraft authorized so marked. Wing, OG and flying squadron commanders are authorized to designate one aircraft each to be marked. For Total Force Integration (TFI) locations under classic association, the Wing Commander may authorize one aircraft to be identified as the associate ANG or AFRC Commander's aircraft. COMPACAF may select one aircraft within the command to be specifically marked; it will be the only aircraft authorized so marked. The following guidance governs markings authorized for a commander's aircraft:

6.6.4.1. Wing and/or NAF insignias on the right forward fuselage and a collage of assigned flight/operations squadron insignias on the left forward fuselage.

6.6.4.1.1. **(Added-KADENAAB)** The Wing (WG) and Operations Group (OG) Commander's aircraft will have a collage of assigned flight/operations insignias on the left forward fuselage (See [Attachment 13](#)) in the following order: Owing unit's color will go first, 67 FS, 961 AACS, 909 ARS, and 33 RQS.

6.6.4.1.2. **(Added-KADENAAB)** F-15: The 18 WG and 18 OG Commanders' aircraft will have an evenly spaced blue (15102), red (11136), white (17925), yellow and green (14187) blocks painted inboard and outboard on both vertical stabilizers. The colors will be in-line with the angle of the leading edge of the vertical stabilizer. The unit name will consist of an alphanumeric designator of: 18 WG. See [Attachments 8](#) through [Attachment 13](#).

6.6.4.2. Unit identifier and radio call numbers. Unit Identifier and radio call numbers will remain on vertical stabilizers as depicted in T.O. 1-1-8, applicable weapons system T.O., and this instruction. Highlighting (shadowing) of unit identifier and radio call number on the vertical tail(s) is authorized on all designated commander aircraft except F-35 units. All highlighting will be done in contrasting gray, black or white and must meet the primary basecoat gloss requirement e.g., flat, semi-gloss, gloss.

6.6.4.3. **Anniversary markings.** This policy is provided to allow latitude for application of anniversary logo markings to Wing Commander aircraft only.

6.6.4.3.1. Wing commanders will review all requests for fiscal responsibility. **(T-2)** Proposed markings must be further be coordinated through local Public Affairs, local Staff Judge Advocate, Base Historian, and approved by the Wing Commander prior to application.

6.6.4.3.2. Size of marking will be no larger than nine square feet. Location on the aircraft is at wing commander discretion but will not interfere with required aircraft markings.

6.6.4.3.3. Anniversary markings will meet primary basecoat gloss requirements and will not alter nor interfere with T.O. 1-1-8 and weapon system specific T.O. guidance and/or markings. State flags and logos other than anniversary type are not authorized.

6.6.4.4. Applied anniversary marking(s) must be removed within 60 days following the anniversary period (1-year maximum time period). Extension requests must be submitted by the Wing Commander to PACAF/A4M for consideration. **(T-2)**

6.6.4.5. **Bird Of Prey Silhouette.** Bird of prey silhouettes are authorized on F-15 and F-16 aircraft as a unit option but must be standardized within a wing by MDS. The following guidelines apply:

6.6.4.5.1. F-15 Aircraft. The silhouette will be placed on the insides of the vertical stabilizers. They will not exceed 24 inches in height and must be applied in a contrasting gray color.

6.6.4.5.2. F-16 Aircraft. The silhouette can be placed anywhere on the aircraft if it does not interfere with standard required markings. The silhouette will not exceed 18 inches in height and must be applied in a contrasting gray color.

6.6.4.6. **Aerial Victory Marking.** Fighter aircraft awarded a verified aerial victory are authorized to display a 6-inch green star with a 1/2-inch black border located just below and centered on the pilot's name block. The type of aircraft shot down must be stenciled inside the star in 1/2-inch white lettering. For aircraft with multiple aerial victories, a star is authorized for each aircraft shot down. No other victory markings are authorized.

6.6.4.7. **A-10, F-15, F-16 Combat Marking.** Deployed units supporting combat operations are authorized to place combat markings (bomb and 20/30MM ammunition) on aircraft operating at deployed locations using the following criteria. The combat markings will be placed inside the pilot/DCC name placard (name markings must be sanitized/removed during deployment) on A-10, F-15 and F-16 aircraft. The markings will be displayed using contrasting shades conforming to the basic aircraft camouflage requirements. Cut the stencils out of a removable adhesive marking material. The bomb markings are intended to generically represent each general-purpose conventional bomb (e.g., GBU-12/31/38s and MK-82s) dropped at a one-to-one ratio and each 20/30-mm ammo round silhouette represents 100 rounds, or one pass. The Air Expeditionary Wing is responsible for providing the stencil machine/materials and removing the combat markings prior to redeployment.

**6.7. Aircraft Travel Pods.** Travel pods will be painted the same color and tone as the aircraft with no additional markings. Gloss paint may be used to aid in cleaning. Units with multicolor aircraft should select one primary color of the aircraft for the travel pod. Lettering will be subdued in color but will not exceed 6 inches in height.

**6.8. External Fuel Tanks.** External fuel tanks will be painted the same color and tone as existing aircraft coating. A 2-inch marking (centered on lugs) is optional for tracking purposes.

## 6.9. Competition Aircraft.

6.9.1. Units participating in competitions will follow the guidelines established in competition rules for aircraft appearance. **(T-2)** Competitions should be considered "come as you are" and no waivers will be granted. "Come as you are" is defined as no special effort, painting, or additional markings applied to enhance or improve the overall appearance of the aircraft. This includes polishing of metal surfaces, using commander type markings, etc.

## 6.10. Aircraft Transfer.

6.10.1. The following markings must be removed prior to formal transfer of aircraft to other units or MAJCOMs (aircraft retiring to Aerospace Maintenance and Regeneration Group need not have any markings removed). Deviations from transfer requirements are authorized provided the gaining and losing units reach a mutual agreement **(T-2)**

- 6.10.1.1. Organizational insignias.
- 6.10.1.2. Unit identifier.
- 6.10.1.3. Tail stripe.
- 6.10.1.4. Aircrew and crew chief names.
- 6.10.1.5. Unit unique markings.
- 6.10.1.6. Nose art.

## 6.11. Waivers.

6.11.1. Wing Commanders must submit waiver requests to [pacaf.a4mv3@us.af.mil](mailto:pacaf.a4mv3@us.af.mil). **(T-2)** Waivers that are in violation of aircraft technical data will not be accepted. Waiver requests must include the following:

- 6.11.1.1. Clear statement of present procedure/markings.
- 6.11.1.2. Clear statement of proposed change.
- 6.11.1.3. Justification to include historical significance, if applicable.
- 6.11.1.4. Digital color photographs, one of present marking and one of requested change. The use of a slide presentation format is allowed.

6.11.2. All approved waiver documentation must be kept on file by owning organization.

**6.12. Historical Requirements.** Aircraft Structural Maintenance and/or Low Observable section will maintain a record of all current unit unique markings, e.g., commanders' aircraft, tail stripes, travel pods, paint ID placard, etc. **(T-2)**

6.12.1. In addition, units will file a copy of all wing approval memorandums and photos with the applicable base historian and will send a copy to the MAJCOM Corrosion Program Manager ([pacaf.a4mv3@us.af.mil](mailto:pacaf.a4mv3@us.af.mil)). **(T-2)**

### 6.13. Tone Down.

6.13.1. **Test equipment/composite tool kits (CTKs).** Tone down of test equipment, CTKs and like equipment will be determined by the aircraft gloss requirement, i.e., unit with aircraft having gloss finishes may apply gloss finishes to their test equipment and CTKs. If the aircraft assigned have a requirement for flat finishes, then all test equipment and CTKs designed for on-equipment application will be toned down in flat colors.

6.13.1.1. To prevent obscuring of instructions and possible damage to components, only exteriors of test equipment boxes will be toned down.

6.13.1.2. Test equipment and CTKs used outside the shop environment will be toned down, i.e., gray, olive drab, brown, black or forest green. A camouflage pattern incorporating a combination of these colors may be used.

6.13.1.3. Equipment not removed from back shops need not be toned down i.e., test equipment, test benches, and mockups.

6.13.1.4. **(Added-KADENAAB)** Due to the extreme corrosive environment at Kadena, OD green units will not be scheduled until they receive a CAT 3 or CAT 4 paint score. If AGE is received in another color (i.e. red, gloss white, or a high visibility color) AGE can coordinate its schedule for Tone Down within 60 days upon arrival on base.

6.13.2. **Tactical Air Control System (TACS) Equipment Requirements.** TACS shelters, vehicles, and support equipment will be camouflage pattern painted using chemical agent resistant coating in accordance with T.O. 36-1-171, *Painting Instruction for Army Material*.

6.13.2.1. TACS shelters, vehicles and support equipment will be pattern painted in a three-color camouflage scheme in accordance with T.O. 36-1-161, *Color, Marking, and Camouflage Painting of Military Vehicles, Construction Equipment and Materials Handling Equipment* and authorized equipment specific technical guidance.

6.13.2.2. Reflective tape, signs, and decals will not be applied.

6.13.2.3. Fabric or inflatable shelters will not be painted in accordance with this instruction.

6.13.2.4. Mobilizers can be toned down in the solid complementary colors of desert sand or forest green.

6.13.3. **Alternate Mission Equipment (AME).** AME will be painted in accordance with specific technical data. When such data does not exist, units will coordinate with the applicable item manager and PACAF/A4M before changing paint schemes.

6.13.3.1. **(Added-KADENAAB)** A serial number used for local tracking purposes may be applied to a standardized location to all Alternate Mission Equipment (AME) units determined by the Armament Flight Chief. The decal font size will not exceed 1" with the option of colors, black, red, or blue in line with the owning unit's colors.

6.13.3.2. **(Added-KADENAAB)** Due to the extreme corrosive environment at Kadena, OD green units will not be scheduled until they receive a CAT 3 or CAT 4 paint score. If AGE is received in another color (i.e. red, gloss white, or a high visibility color) AGE can coordinate its schedule for Tone Down within 60 days upon arrival on base.

PATRICK G. MILLER, Colonel, USAF  
Director of Logistics, Engineering and Force  
Protection

**(KADENAAB)**

NICHOLAS B. EVANS  
Brigadier General, USAF  
Commander, 18th Wing

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

In addition to required/recommended publications, each Section will maintain publications for possessed equipment in accordance with T.O. 00-5-1, *AF Technical Order System*.

DAFI 21-101, *Aerospace Equipment Maintenance Management*, 15 January 2020

DAFI 24-602 Volume 2, *Cargo Movement*, 12 June 2019

AFI 33-322, *Records Management and Information Governance Program*, 27 July 2021

AFI 48-145, *Occupational and Environmental Health Program*, 11 July 2018

AFI 63-101/20-101, *Integrated Life Cycle Management*, 29 June 2020

DAFI 63-140, *Aircraft Structural Integrity Program and Air and Space Equipment Structural Management*, 6 August 2020

**(Added-KADENAAB)** DAFI21-101, *Aircraft and Equipment Maintenance Management*, 20 December 2023

DAFMAN 32-1084, *Standard Facility Requirements*, 14 January 2020

DAFMAN 91-203, *Air Force Occupational Safety, Fire, and Health Standards*, 25 March 2022

**(Added-KADENAAB)** T.O. 1-1-691, *Aircraft Weapons Systems—Cleaning and Corrosion Control and Prevention Aerospace and Non-Aerospace Equipment*, 22 July 2022

**(Added-KADENAAB)** T.O. 1F-15A-23, *System Peculiar Corrosion Control*, 15 October 2024

**(Added-KADENAAB)** T.O. 1H-60(H)G-23, *System Peculiar Corrosion Control*, 1 March 2023

**(Added-KADENAAB)** T.O. 35-1-3, *Corrosion Prevention and Control, Cleaning, Painting and Marking of USAF Support Equipment (SE)*, 26 January 2022

UFC 4-211-02, *Aircraft Corrosion Control and Paint Facilities*, 12 February 2013

T.O. 00-20-3, *Maintenance Processing of Repairable Property and the Repair Cycle Asset Control System*, 17 December 2021

T.O. 00-20-14, *Air Force Metrology and Calibration Program*, 28 February 2022

T.O. 00-25-107, *Maintenance Assistance*, 01 October 2015

T.O. 00-25-172, *Ground Servicing of Aircraft and Static Grounding/Bonding*, 23 May 2022

T.O. 00-25-195, *AF Technical Order System Source Maintenance, and Recoverability Coding of Air Force Weapons, Systems, and Equipment*

T.O. 00-25-252, *Intermediate and Depot Level Maintenance Instructions Aeronautical Equipment Welding*, 22 July 2022

T.O. 00-35D-54, *USAF Deficiency Reporting, Investigation, and Resolution*, 15 April 2021

T.O. 1-1-8, *Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment*, 08 June 2022

- T.O. 1-1-689-3, *Cleaning and Corrosion Control Volume III Avionics and Electronics*, 15 January 2016
- T.O. 1-1-690, *General Advanced Composite Repair Processes Manual*, 08 November 2016
- T.O. 1-1-691, *Cleaning and Corrosion Prevention and Control, Aerospace and Non-Aerospace Equipment*, 21 August 2021
- T.O. 33-1-27, *Maintenance Support of Precision Measurement Equipment*, 17 August 2013
- T.O. 33-1-37-1, *Joint Oil Analysis Program Manual Volume I*, 15 September 2014
- T.O. 33-1-37-2, *Joint Oil Analysis Program Manual Volume II*, 01 June 2015
- T.O. 33-1-37-3, *Joint Oil Analysis Program Manual Volume III*, 30 June 2019
- T.O. 34A-1-1, *Additive Manufacturing Qualification of Technicians, Machines and Facilities*, 17 June 2022
- T.O. 34A-2-1, *Metals Additive Manufacturing General Procedures and Process Controls*, 1 July 2022
- T.O. 34A-3-1, *Polymers Additive Manufacturing, General Procedures and Process Controls*, 21 June 2022
- T.O. 35-1-3, *Corrosion Prevention and Control, Cleaning, Painting, and Marking of USAF Support Equipment*, 26 January 2022
- T.O. 36-1-161, *Color, Marking, and Camouflage Painting of Military Vehicles, Construction Equipment and Materials Handling Equipment*, 7 May 1991
- T.O. 36-1-171, *Painting Instructions for Army Material*, 30 June 2008

***Prescribed Forms***

None

***Adopted Forms***

- DD Form 2757, *Welding Examination Record*
- AFTO Form 781A, *Maintenance Discrepancy and Work Document*
- AFTO Form 95, *Significant Historical Data*
- DAF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms:***

- (Added-KADENAAB) AB**—Air Base
- ACC**—Air Combat Command
- AFCENT**—Air Force Central Command
- AFI**—Air Force Instruction
- AFMAN**—Air Force Manual
- AFOSH**—Air Force Occupational Safety and Health

**AFPD**—Air Force Policy Directive  
**AFRC**—Air Force Reserve Command  
**AFRIMS**—Air Force Records Information Management System  
**AFRL**—Air Force Research Laboratory  
**AFSC**—Air Force Specialty Code  
**AGE**—Aerospace Ground Equipment  
**ALC**—Air Logistics Center  
**ALIS**—Autonomic Logistics Information System  
**AME**—Alternate Mission Equipment  
**AMU**—Aircraft Maintenance Unit  
**AMX**—Aircraft Maintenance  
**AMXS**—Aircraft Maintenance Squadron  
**ANG**—Air National Guard  
**APC**—Advance Performance Coatings  
**ARC**—Air Reserve Component  
**ASM**—Aircraft Structural Maintenance  
**BCE**—Base Civil Engineer  
**CAF**—Combat Air Force  
**CC**—Commander  
**CE**—Civil Engineering  
**CEM**—Communications-Electronics-Meteorological  
**(Added-KADENAAB) CFT**—Contract Field Team (Contracted Operation)  
**(Added-KADENAAB) CFT COR/QAR**—CFT Contract Officer/Quality Assurance Representative (Military Operation)  
**CMS**—Component Maintenance Squadron  
**(Added-KADENAAB) COR**—Contract Officer Representative  
**CPAB**—Corrosion Prevention Advisory Board  
**CPCP**—Corrosion Prevention and Control Program  
**CTK**—Composite Tool Kit  
**(Added-KADENAAB) CWR**—Clear Water Rinse  
**DAFI**—Department of the Air Force Instruction  
**DAFMAN**—Department of the Air Force Manual  
**DoD**—Department of Defense

**(Added-KADENAAB) DPAS**—Defense Property Accountability System

**DR**—Deficiency Reports

**EMS**—Equipment Maintenance Squadron

**ESA**—Electrical Surge Arrestor

**FAC**—Forward Air Control

**FGS**—Fighter Generation Squadron

**FTD**—Field Training Detachment

**HAZMART**—Hazardous Material

**(Added-KADENAAB) HMU**—Helicopter Maintenance Unit

**HQ**—Headquarters

**HVAC**—Heating, Ventilation and Air Conditioning

**(Added-KADENAAB) IAW**—In Accordance With

**ICBM**—Intercontinental Ballistic Missile

**IC**—Interim Change

**IMDS**—Integrated Maintenance Data System

**IMIS**—Integrated Maintenance Information System

**IPT**—Integrated Process Teams

**JOAP**—Joint Oil Analysis Program

**LOCRF**—Low Observable/Composite Repair Facility

**LO**—Low Observable

**(Added-KADENAAB) LOI**—Local Operating Instruction (contract specific)

**LRU**—Line Replaceable Units

**MAJCOM**—Major Command

**MDS**—Mission Design Series

**MOA**—Memorandum of Agreement

**MSDS**—Material Safety Data Sheet

**NAF**—Numbered Air Force

**NCO**—Noncommissioned Officer

**NDI**—Non-Destructive Inspection

**(Added-KADENAAB) NDI**—Nondestructive Inspection

**NESHAP**—National Emission Standards for Hazardous Air Pollutants

**(Added-KADENAAB) NLT**—No later than

**OAP**—Oil Analysis Program

**(Added-KADENAAB) OD**—Olive Drab

**OPR**—Office of Primary Responsibility

**PGM**—Product Group Manager

**PIT**—Product Improvement Team

**PR**—Personnel Recovery

**(Added-KADENAAB) PWS**—Performance Work Statement

**QA**—Quality Assurance

**(Added-KADENAAB) QAR**—Quality Assurance Representative

**(Added-KADENAAB) QASP**—Quality Assurance Surveillance Report

**QPD**—Qualified Product Database

**QPL**—Qualified Products Listings

**QPT**—Quality Training Package

**QTP**—Quality Training Package

**RAM**—Radar Absorbing Material

**RCS**—Radar Cross Section

**RDS**—Records Disposition Schedule

**RDT&E**—Research, Development, Test and Evaluation

**RPIE**—Real Property Installed Equipment

**RTO**—Responsible Test Organization

**SAS**—Signature Assessment System

**SEM/EDX**—Scanning Electron Microscope/Energy Dispersive X-Ray

**SE**—Support Equipment

**SMD**—Structural Management Director

**SME**—Subject Matter Expert

**SMP**—Signature Management Program

**SPD**—System Program Directorate

**SPM**—System Program Manager

**STD**—Standard

**T.O.**—Technical Order

**TACS**—Tactical Air Control System

**TDY**—Temporary Duty

**TFI**—Total Force Integration

**TMDE**—Test, Measurement and Diagnostic Equipment

**TOD**—Technical Order Data

**UFC**—Unified Facilities Criteria

**USAF**—United States Air Force

**(Added-KADENAAB) WCM**—Wing Corrosion Manager

## Attachment 2

## AIRCRAFT MARKING SPECIFICATIONS

**A2.1. (Not all inclusive, refer to specific weapon system T.O. or drawings for further guidance) .**

**Table A2.1. A-10 Markings.**

<b>Marking</b>	<b>Location</b>	<b>Size</b>	<b>Color/Finish</b>
Tail Stripe	Per local instruction	Not to exceed 9 inches	Per local instruction
PACAF Command Patch	Outboard side of both vertical stabs; Vertical: 10 inches below bottom edge of rudder cap Horizontal: Centered on unit identifier	10 inches tall	36118
Unit Unique Silhouette (per local instruction)	On both vertical stabs; Vertical: Centered between PACAF command patch and unit identifier Horizontal: Centered on vertical stab, excluding rudder measurement	Per local instruction	36118
Unit Identifier "OS"	Outboard side of both vertical stabs; Vertical: Bottom of letters located 3 inches above top of tail numbers Horizontal: Centered on tail numbers	10 inches tall	36118
Aircraft Tail Numbers	Marked in accordance with T.O. 1A-10() -23	6 inches tall	36118
Wing Patch	On left side of fuselage; Vertical; Above panel F-18 Horizontal: Aft of panel F-44	10 inches tall	36118
Squadron Patch	On right side of fuselage; Vertical; Above panel F-79 Horizontal: Aft of panel F-105	10 inches tall	36118
Pilot and Crew Chief Names	Pilot name located on left side under windscreen beginning at FS 188.92. Crew chief name located under pilot name. Assistant crew chief name located under crew chief name.	Not to exceed 2 inches tall	Per local Instruction
Nose Numbers	Last three/four digits of tail number on both sides of aircraft nose	6 inches tall	36118

**A2.2. C-17 Markings.**

A2.2.1. All C-17 markings will be in accordance with T.O. 1C-17A-23. Crew names are optional.

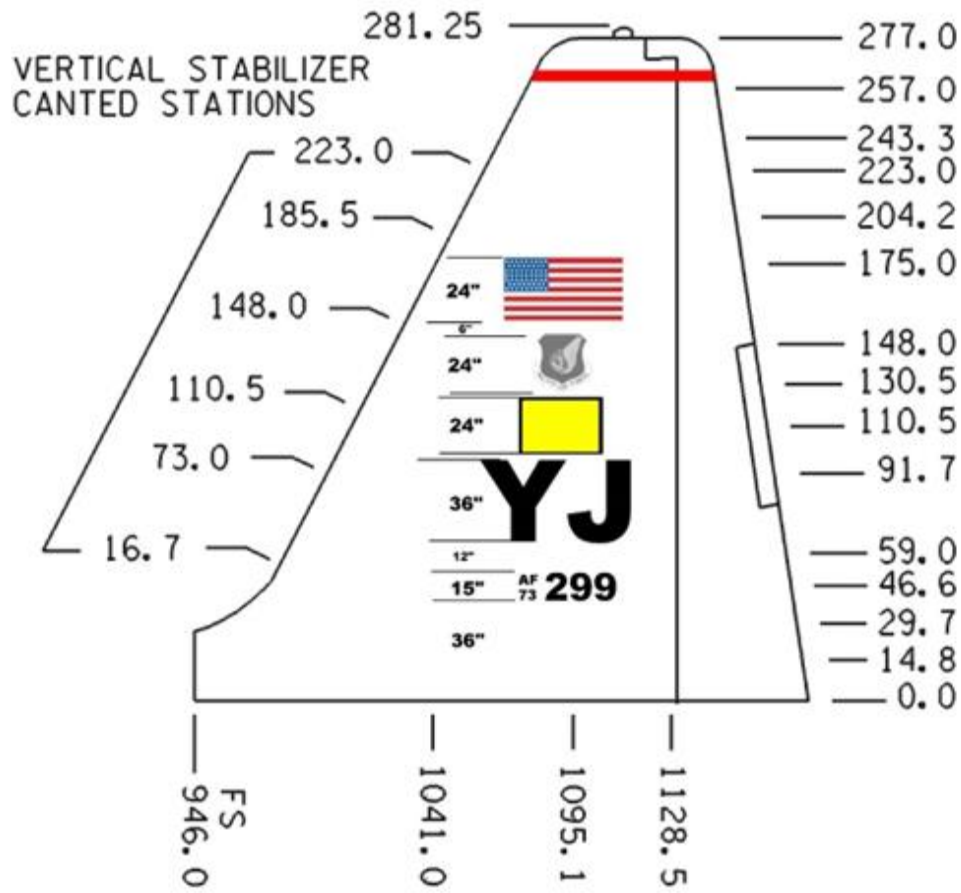
**A2.3. C-130 Markings.**

**Table A2.2. C-130 Markings.**

<b>Marking</b>	<b>Location</b>	<b>Size</b>	<b>Color/Finish</b>
Tail Stripe	Horizontal wrap around stripe. Top of stripe located at vertical stabilizer station 265.	12 inches tall	Per local instruction
American Flag	On both sides of vertical stab; Vertical: Top of flag located 23 inches below the vertical stab antenna (178 inches from base of vertical); Horizontal: centered on vertical stab (excluding rudder measurements).	24 X 48 inches	Matte Finish
PACAF Command Patch	On both sides of vertical stab; Vertical: Top of patch located 6 inches below bottom of flag Horizontal: centered on vertical stab (excluding rudder measurements).	24 inches tall	Subdued
Unit Unique Silhouette (per local instruction)	On both sides of vertical stab; Vertical: Centered between PACAF command patch and unit identifier Horizontal: Centered on vertical stab, excluding rudder measurement	Not to exceed 24 inches tall x 36 inches long	Per local instruction
Unit Identifier "YJ"	On both sides of vertical stab; Vertical: Bottom of unit identifier located at vertical stab station 63. Horizontal: Centered between FS 1068 and 1122.	36 inches tall	37038
Radio Call Numbers	On both sides of vertical stab; Vertical: Bottom of radio call numbers located at vertical stab station 36. Horizontal: Centered between FS 1068 and 1122.	15 inches tall	37038
Wing Patch	Left fuselage; Vertical: 8 inches above first porthole beneath light panel Horizontal: Centered between FS 245.0E and FS 245.00	12 inches tall	Black

<b>Marking</b>	<b>Location</b>	<b>Size</b>	<b>Color/Finish</b>
Squadron Patch	Right fuselage symmetrically located same as wing patch.	12 inches tall	Black
Aircraft Commander and Crew Chief Names	Vertical: Bottom of name block on WL175.0 Horizontal: Center between FS 175.0 and FS 210.0.	Per local instruction	Subdued
Crew Names (Optional)	Left side of fuselage only. Centered between aft edge of crew entrance door and fuselage light hinge. Bottom of block located 6 inches above top of beef up plate	Per local instruction	Matte Black
Nose Numbers (Number will consist of last four digits of aircraft serial number)	On both sides of fuselage; Vertical: Aligned with the bottom of the kick window Horizontal: 23 inches aft of kick window	6-inch block letters	Black
Wing Designation	On both sides of fuselage; Vertical: 6 inches below nose numbers Horizontal: The last letter of the Wing designator will be aligned with last digit of the nose numbers.	6-inch block letters	Black
Armament Placard	Top of placard located 15 inches below top of CED door and 5 inches aft of the door. The word "ARMAMENT" will be located $\frac{3}{4}$ " below upper border of placard.	16 X 10 inches with 1 inch border	37038

Figure A2.1. C-130 Markings.



## A2.4. E-3 Markings.

Table A2.3. E-3 Markings.

Marking	Location	Size	Color/Finish
Tail Stripe	Horizontal stripe on both sides of tail. Top of stripe located at WL 557.1	Not to exceed 24 inches tall	Per local instruction
American Flag	Applied to both sides of the vertical stabilizer. The top of the American flag is located at Fin Station 210.15 with the forward top corner of each flag resting on the vertical stabilizer leading edge seam.	60 x 31.5 inches	Per T.O. Guidance
PACAF Command Patch	Centered 12 inches fwd Sta 259.5. Top of insignia 40 inches above Stringer 19 on co-pilot's side	18 inches tall	Black silhouette
Unit Unique Silhouette (per local instruction)	On both sides of vertical stab;  Vertical: Centered between American flag and unit identifier  Horizontal: Centered on vertical stab, excluding rudder measurement	Not to exceed 24 inches tall x 36 inches wide	Per local instruction
Unit Identifier	Left side: Located 7 inches above the radio call number with the top corner of the first letter at the leading-edge seam  Right side: Located 7 inches above the radio call number with the top corner of the last letter at the leading-edge seam	24 inches tall	Gloss Black
Aircraft Tail Numbers	On both sides of vertical stab; 7 inches below unit identifier	12 inches tall	Gloss Black
Wing Patch	Centered 12 inches fwd Sta 259.5. Top of insignia 40 inches above Stringer 19 on pilot's side	18 inches tall	Black silhouette
Pilot and Crew Chief Names	In a 1/4" black bordered, 30 1/2" by 11 1/2" box, just below the commander's window on the left side of the aircraft with the upper edge of the box 40" plus or minus 0.50" above the edge of the skin stringer 19, running from body station 227.8 to 203.8 will be the words "ACFT	Per verbiage	Per verbiage

Marking	Location	Size	Color/Finish
	<p>Commander" in Helvetica medium with 1.13" lettering with the individuals name centered below it in Brush Script with 1.695" lettering. Below the ACFT Commander's name will be the words "Dedicated Crew Chief" in Helvetica medium in 1.13" lettering with the individuals name centered below it in Brush Script in 1.695" lettering. The stencil will be placed 1/4" below seam and 1/2" forward of window beef up plate (all lettering will be black).</p> <p>In a 1/4" black bordered, 30 1/2" by 11 1/2" box just below the Pilots window on the right side of the aircraft, with the upper edge of the box 40" plus or minus .50" above the skin stringer 19, running from body station 227.8 to 203.8 will be the words "MCC" in Helvetica medium with 1.13" lettering with the individuals name centered below it in Brush Script with 1.695" lettering. Below the MCCs' name will be the word "ADCC" in Helvetica medium with 1.13" lettering with the individuals name centered below it in Brush Script with 1.695" lettering. The stencil will be placed 1/4" below seam and 1/2" forward of window beef up plate (All lettering will be black).</p>		
Nose Numbers	Last four digits of tail number on left and right nose gear door	6 inches tall	Gloss Black

**A2.5. F-15 Markings.**

**Table A2.4. F-15 Markings.**

<b>Marking</b>	<b>Location</b>	<b>Size</b>	<b>Color/Finish</b>
Tail Stripe	Per local instruction	6 inches tall	Per local instruction
PACAF Command Patch	Vertical: Bottom of insignia 18 inches above unit designator Horizontal: Aft edge of insignia of FS 806.5	18 inches tall	37038
Unit Unique Silhouette (per local instruction)	Inside surface of both vertical stabs; Vertical: Centered between PACAF command patch and unit identifier Horizontal: Centered on vertical stab, excluding rudder measurement	Per local instruction	Per local instruction
Unit Identifier "ZZ"	On both vertical stabs; Vertical: Top of letters even with top of rudder Horizontal: Leading edge of first letter on FS 760.0	24 inches tall	37038
Aircraft Tail Numbers	Follow specific -23 T.O. reference for location.	15 inches tall	37038
Wing Patch	On left side of fuselage; Vertical: Bottom of insignia on WL 100.0 Horizontal: Forward edge of insignia on FS 458.0	18 inches tall	37038
Squadron Patch	On right side of fuselage; Vertical: Bottom of insignia on WL 100.0 Horizontal: Forward edge of insignia on FS 458.0	18 inches tall	37038
Pilot and Crew Chief Names	Pilot centered below left windscreen frame and crew chief and assistant crew chief names centered below right windscreen frame.	Not to exceed 2 inches tall	Per local Instruction
Nose Numbers	Last three/four digits of tail number vertically on left and right side of the nose gear door or on the aircraft nose 1 inch below the EWWS antenna with the last number ending 1 inch from radome.	4 inches tall	37038

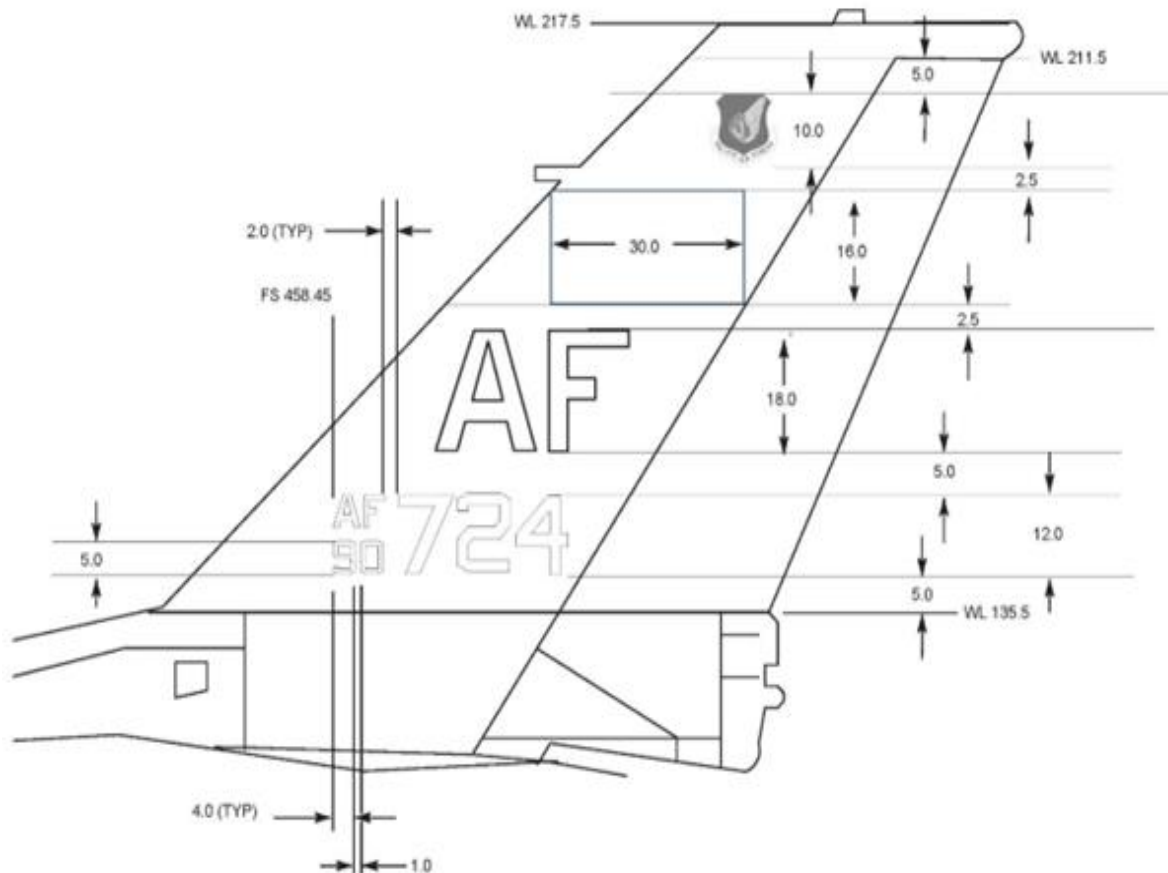
## A2.6. F-16 Markings.

Table A2.5. F-16 Markings.

Marking	Location	Size	Color/Finish
Tail Stripe	Horizontal wrap around stripe. Top of stripe located at WL 217.5	6 inches tall	Per local instruction
PACAF Command Patch	On both sides of vertical stab; Vertical: Top of patch 5 inches below bottom of tail stripe Horizontal: Centered on vertical stab, excluding rudder measurement	10 inches tall	36118
Unit Unique Silhouette (per local instruction)	On both sides of vertical stab; Vertical: Centered between PACAF command patch and unit identifier Horizontal: Centered on vertical stab, excluding rudder measurement	Not to exceed 16 inches tall x 30 inches long	36118
Unit Identifier “OS”, “WP”, “WW”, “AK”	On both sides of vertical stab; Vertical: Bottom of letters at WL 157.5 Horizontal: Centered on vertical stab, excluding rudder measurement	18 inches tall	36118
Aircraft Tail Numbers	Marked in accordance with T.O. 1F-16( )-2-00GV-00-1	12 inches tall	36118
Wing Patch	On left side of fuselage; Vertical; Top of patch 11 inches below fuselage/intake splitter vane Horizontal: Leading edge 52 inches aft of intake duct lip	10 inches tall	36118
Squadron Patch	On right side of fuselage; Vertical; Top of patch 11 inches below fuselage/intake splitter vane Horizontal: Leading edge 52 inches aft of intake duct lip	10 inches tall	36118
Pilot and Crew Chief Names	Pilot name located on left canopy rail. Crew chief name located on right canopy rail. Assistant crew chief name located on inside of nose gear door.	Not to exceed 2 inches tall	Per local Instruction
Nose Numbers	Last three/four digits of tail number on both sides of nose gear door or centered	4 inches tall	36118

Marking	Location	Size	Color/Finish
	below teardrop EWWS antenna on each side of aircraft nose		

Figure A2.2. Typical Paint Scheme.



### A2.7. Unique Paint Scheme.

A2.7.1. **Aggressor Aircraft (Eielson Only)** Aircraft are authorized to be painted using the “Arctic”, “Blizzard”, “Desert”, “Fulcrum”, “Lizard”, “Shark”, “Splinter”, or “Wraith” paint scheme, however, units must submit for engineer approval in accordance with T.O. 00-25-107, *Maintenance Assistance*, prior to paint application. Unless approved by T.O. guidance all other paint scheme change requests require approval prior to painting in accordance with T.O. 1-1-691, *Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment*, in conjunction with T.O. 00-25-107, *Maintenance Assistance*.

A2.7.2. F-16 units operating in icing conditions are authorized to paint a flat black (color code 37038) ring around the inside lip of the engine inlet duct to aid in the detection of ice build-up. In these cases, units will pay particular attention not to paint over any rain erosion coating as this may lead to premature failure of the rain erosion coating. (T-2) Flat black ring should be painted on first white section of inlet lip RAM coating.

**A2.8. F-22 Markings.**

**Table A2.6. F-22 Markings.**

Marking	Location	Size	Color/Finish
Tail Stripe	Horizontal wrap around stripe applied to the upper most elements on both sides of the vertical stabilizers.	6 inches tall	Any design applied in contrasting shades of gray
PACAF Command Patch	On both vertical stabs;  Vertical: Top of insignia applied 50.3 inches below top of vertical stabilizer Horizontal: Centered on trailing edge aft unit designator letter	18 inches tall	Contrasting gray
Unit Unique Silhouette	Not authorized on F-22	N/A	N/A
Unit Identifier “AK”	On both sides of vertical stab;  Vertical: Bottom of letters applied 96.1 inches below top of vertical stabilizer  Horizontal: Bottom leading edge of first letter is applied 28.8 inches aft of vertical stabilizer leading edge	24 inches tall	Contrasting gray
Wing Patch	On left side of fuselage;  Vertical: Centered between chine and bottom of the intake  Horizontal: Centered between leading edge of right intake lip and right weapons bay	18 inches tall	Contrasting gray
Squadron Patch	On right side of fuselage;  Vertical: Centered between chine and bottom of the intake  Horizontal: Centered between leading edge of left intake lip and left weapons	18 inches tall	Contrasting gray

Marking	Location	Size	Color/Finish
	bay		
Pilot and Crew Chief Names	Pilot: Justified to forward edge of left nose landing gear door  Crew Chief: Justified to forward edge of right nose landing gear door	1.75 inches tall	Per local Instruction

### A2.9. F-35 Markings.

**Table A2.7. F-35 Markings.**

Marking	Location	Size	Color/Finish
Tail Stripe	Not authorized for F-35 aircraft	N/A	N/A
PACAF Command Patch	On both vertical stabs;  Vertical: bottom centered 47 inches above the bottom edge of the blackboard  Horizontal: Centered fore to aft in the vertical stabilizer blackboard area	12 inches tall	Contrasting gray silhouette
Unit Unique Silhouette	Not authorized for F-35 aircraft	N/A	N/A
Unit Identifier	On both sides of vertical stab;  Vertical: Bottom of the designator will be centered 25 inches above the bottom edge of the vertical stabilizer blackboard.  Horizontal: Centered on vertical stab, excluding rudder measurement	12 inches tall	Contrasting gray
Aircraft Tail Numbers	Bottom of the tail number will be centered 2 inches above the bottom edge and 2.6 inches from the inner most trailing edge corner of the vertical blackboard area.	6 inches tall	Contrasting gray
Wing Patch	Insignia will be centered within the blackboard area on the right side inlet below the chine and formation light.	12 inches tall	Contrasting gray silhouette
Squadron Patch	Insignia will be centered within the blackboard area on the left side inlet below the chine and formation light.	12 inches tall	Contrasting gray silhouette
Pilot and Crew	Pilot: End of name will be located two inches forward of inboard aft apex (BL	2 inches tall	Per local

Marking	Location	Size	Color/Finish
Chief Names	0) and two inches from BL 0 door edge (left NLG door); Crew Chief: Beginning of name/rank will be located two inches forward of inboard aft apex (BL 0) and two inches from BL 0 edge (right NLG door).		Instruction
Nose Numbers	Nose numbers will be located four inches from the inboard door forward apex (BL 0) and two inches from BL 0 door edge.	4 inches tall	Contrasting gray
<p><b>Note:</b> All lettering/numbering applied to F-35 blackboard areas will meet vertical block type/style font/lettering and Arabic numerals as specified in Technical Order 1-1-8, Appendix B, Figure B-3 (Form of Letters and Numerals) or similar computer-generated font.</p>			

**A2.10. HH-60 Markings.**

**Table A2.8. HH-60 Markings.**

Marking	Location	Size	Color/Finish
PACAF Command Patch	Left side: 11 inches below WL 319.633 centered Right side: 7 inches below WL 319.633 centered	10 inches tall	Subdued
Unit Identifier	Left side: Positioned 21.5 inches below WL 319.633, centered Right side: Positioned 19 inches below WL 319.633, centered	9 inches tall	Subdued
Wing Patch	On right cargo door 8 inches below forward window, centered	10 inches tall	Subdued
Squadron Patch	On left cargo door, 8 inches below forward window, centered	10 inches tall	Subdued
Pilot and Crew Chief Names	Pilot: Right door, 2.5 inches below window, centered Copilot: Left door, 2.5 inches below window, centered Crew chief/assistant: Crew chief, right cargo door, 3.1 inches below and centered on forward window. Assistant: Left cargo door, 3.1 inches below and centered on forward window	Not to exceed 2 inches tall	Per local Instruction

Marking	Location	Size	Color/Finish
Helicopter Rotor Markings	All helicopter rotor markings will be in accordance with T.O. 1-1-8 and applicable weapons system technical data.	T.O. 1-1-8 and applicable weapons system technical data	T.O. 1-1-8 and applicable weapons system technical data

### A2.11. KC-135 Markings.

Table A2.9. KC-135 Markings.

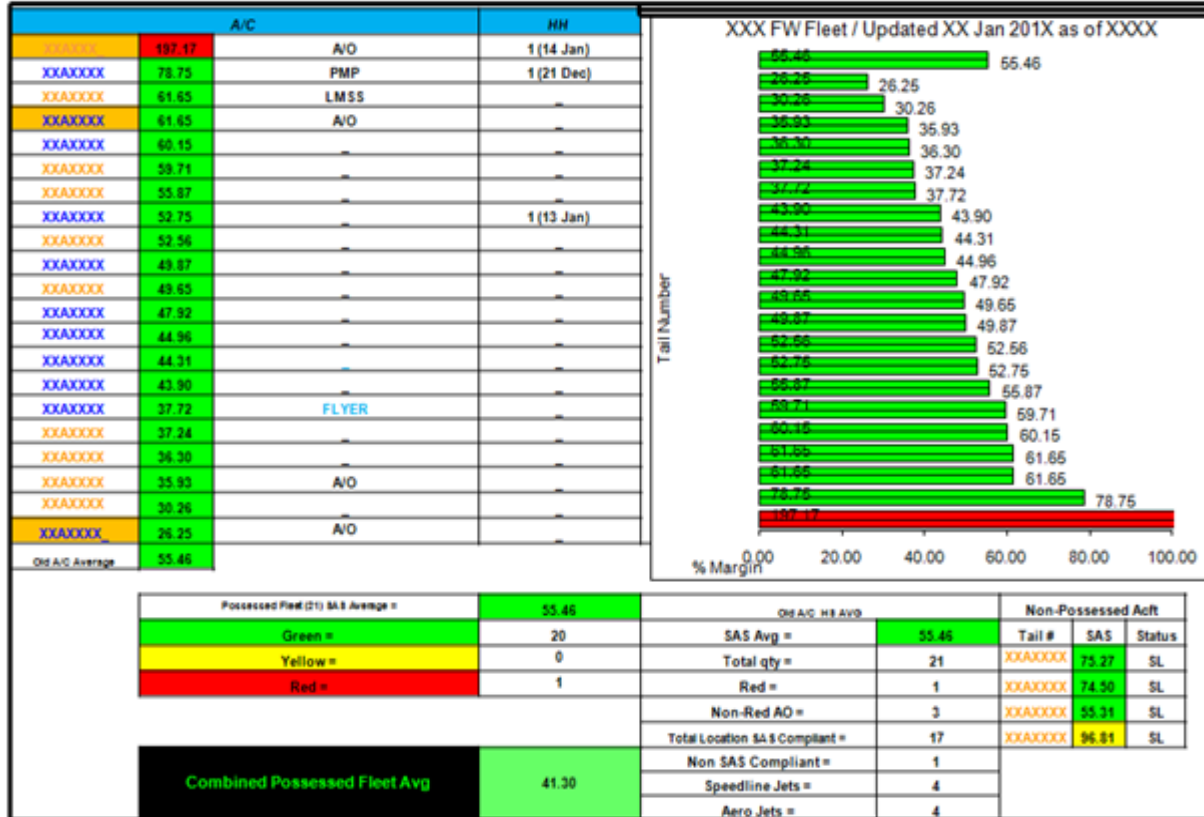
Marking	Location	Size	Color/Finish
Tail Stripe	Horizontal wrap around stripe. Top of stripe located at WL 557.1	24 inches tall	Per local instruction
American Flag	On both sides of vertical stab; Center on vertical stabilizer with bottom of flag 79 inches above top of UHF antenna.	40 X 23 inches	See TO 1C-135-3-8
PACAF Command Patch	On both sides of vertical stab; Vertical: Top of patch 24 inches below bottom of tail stripe Horizontal: Leading edge of patch 17 inches from leading edge of tail	24 inches tall	Black silhouette
Unit Unique Silhouette (per local instruction)	On both sides of vertical stab; Vertical: Centered between PACAF command patch and unit identifier Horizontal: Centered on vertical stab, excluding rudder measurement	Not to exceed 24 inches tall x 36 inches wide	Per local instruction
Unit Identifier	On both sides of vertical stab; Locate 24 inches down from bottom of command emblem. Last letter of designator will end 17 inches in from leading edge of tail.	36 inches tall	Black
Aircraft Tail Numbers	On both sides of vertical stab; 6 inches below unit identifier	12 inches tall	Black
Wing Patch	Locate on left fuselage centered on Fuselage Station 360 & Water Line 214.	24 inches tall	Black silhouette
Squadron Patch	Locate on right fuselage centered on	24 inches tall	Black silhouette

Marking	Location	Size	Color/Finish
	Fuselage Station 360 and Water Line 214. Insignia should be symmetrical with wing insignia.		
Pilot and Crew Chief Names	See <b>paragraph 5.5.10.</b>	Not to exceed 2.5 inches tall	Per local Instruction
Nose Numbers	Last four digit of aircraft serial number. Start numbers on left fuselage at FS 277.0 with bottom of numbers on WL 200.0. Start numbers on right fuselage at FS 203.6 with bottom of numbers on WL 200.0.	6 inches tall	Black
Ruddervator Markings	Numeric and alpha designator of assigned squadron centered on the underside of the left and right ruddervator.	8 inches tall	36622

Attachment 3

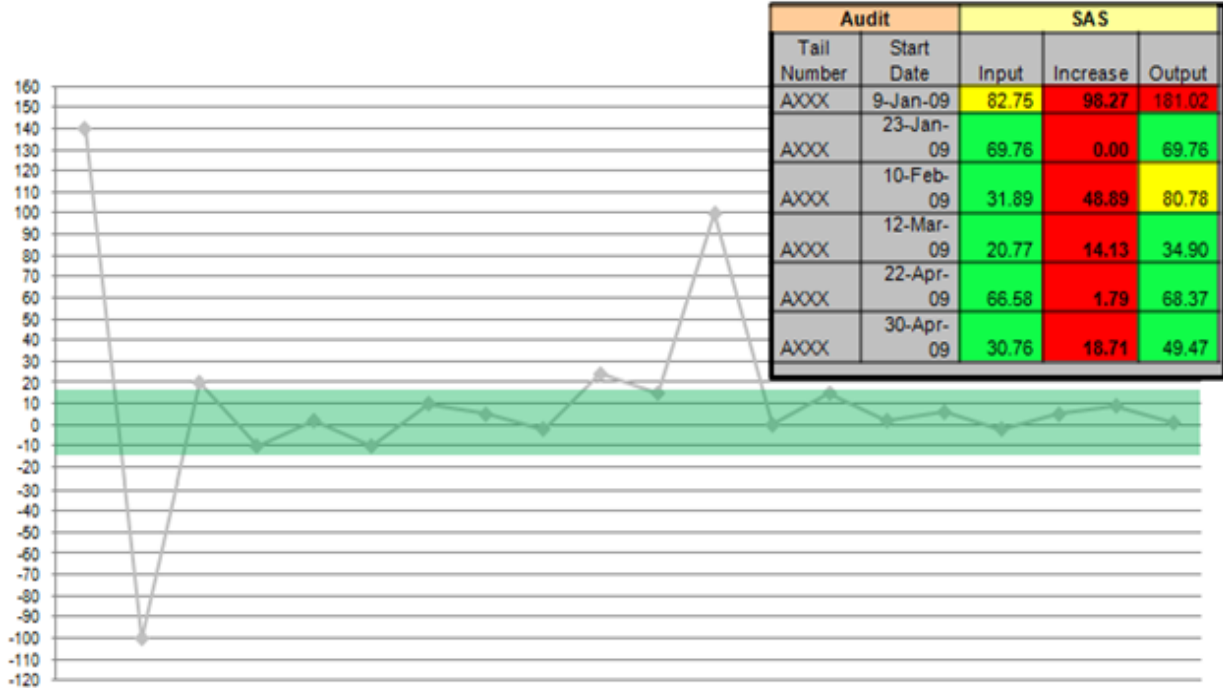
DAILY SAS REPORTING METRIC

Figure A3.1. Daily SAS Reporting Metric.



### Attachment 4 SAS AUDIT METRIC

Figure A4.1. SAS Audit Metric.

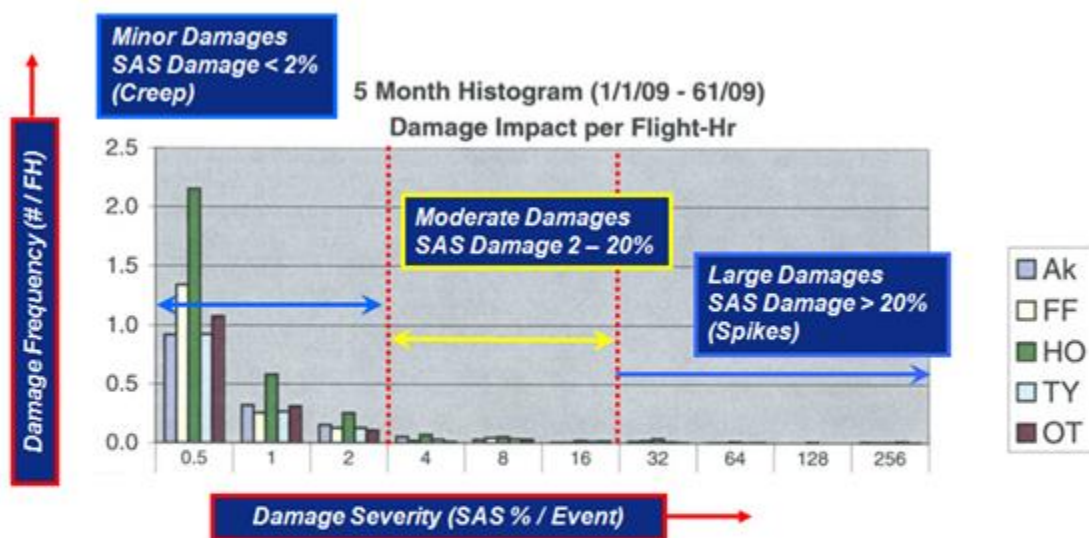


## Attachment 5

## SAS DAMAGE IMPACT DEFINITION

**A5.1. The chart below shows a categorization approach to optimize maintenance activities.** It outlines three categories of damages, those with an impact greater than 20% (major “spikes”), those between 2% and 20% (moderate “routine”) and those less than 2% (minor “creep”). Post flight OML inspections accomplished by the crew chief and/or LO personnel must identify any LO spike damages as soon as possible after flight if the aircraft is on the next day flying schedule.

**Figure A5.1. SAS DAMAGE IMPACT CHART.**



**Note: Actual chart includes all data (including SAS creep rate) by base**

**SAS Creep = LO Damages 2% or Less**

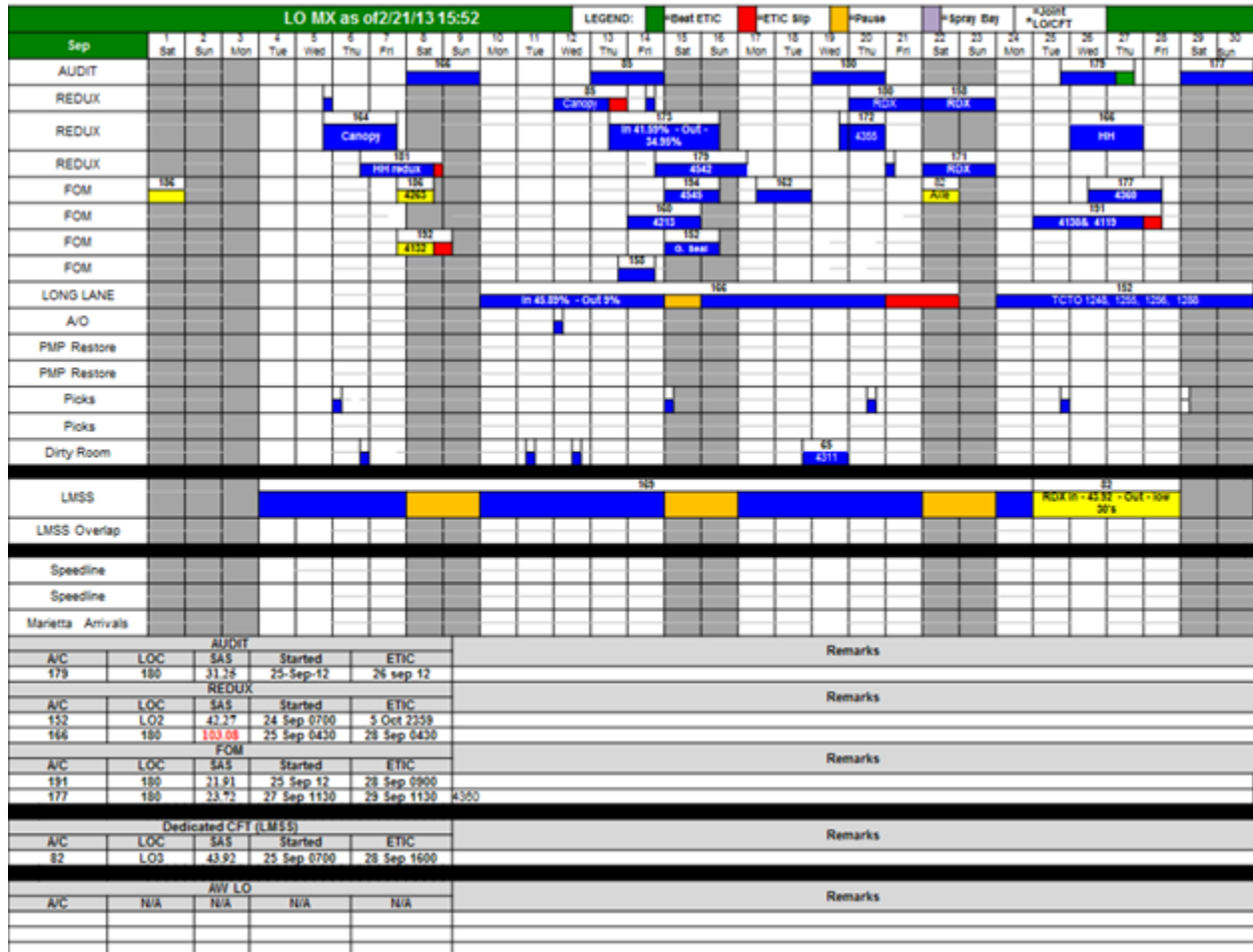
A5.1.1. The damage definition/SAS creep metric must be used to establish a battle rhythm for managing LO maintenance. Minor damages are repaired through scheduled SAS redux. Moderate damages should primarily be worked in groups in conjunction with other scheduled maintenance, e.g., Packaged Maintenance Plans, TCTOs, and panel removals to facilitate other maintenance. Any existing moderate damages should be the priority when performing scheduled SAS reduction efforts. Large damages that drive significant increases in SAS must be fixed as soon as possible to manage SAS growth. In some cases, it may be prudent to define large damages as >10 percent to effectively control SAS margins. This more aggressive approach is particularly beneficial prior to major deployments. Units have the option to define spikes as >10% if necessary to control spike growth, but the SAS creep definition provided above must be used in all cases.

A5.1.2. Use wing analysis and scheduling experts to help balance flying operations and LO maintenance events/downtime to best manage LO fleet health. Failure to effectively balance flying and LO maintenance requirements could lead to an uncontrollable LO backlog.

Attachment 6

LO MAINTENANCE SCHEDULE

Figure A6.1. LO Maintenance Schedule.



Attachment 7

CANOPY TRANSPARENCY STATUS REPORTING.

A7.1. Canopy transparency coating data is tracked by AF Engineering Technical Services, Field Service Representatives or Contract Engineering Technical Services in a format similar to the chart below. The tracking sheet must also include transparency manufacture and damage information by placing a flag note in each block used to track canopy hours. This data is tracked to help units predict reliability. Canopy data must be disseminated to MXG supervisors, MAJCOM weapon system team and the LM canopy IPT at least weekly.

Figure A7.1. Canopy Transparency Status Chart.

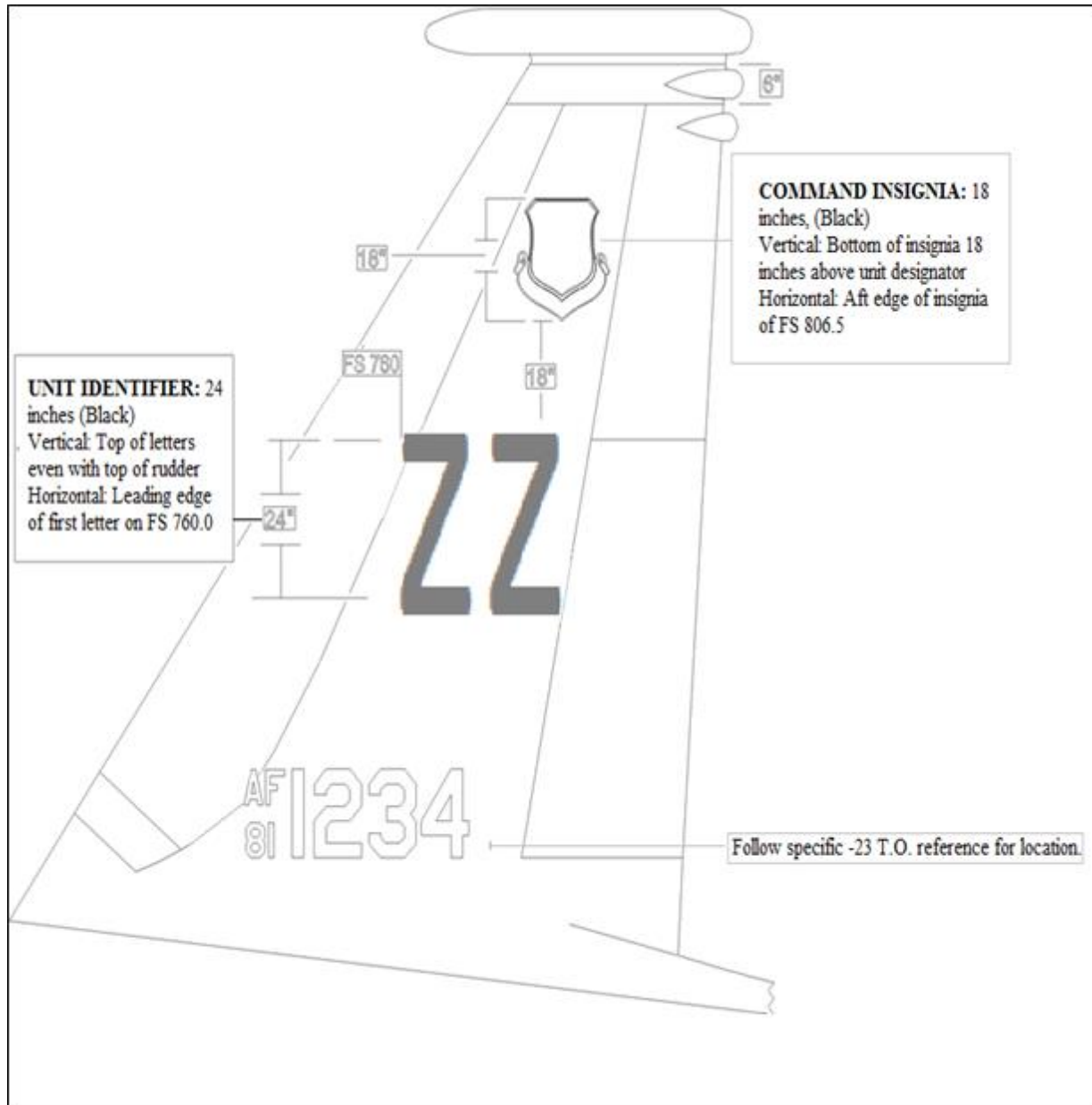
A/C	CANOPY HOURS	Visual Status	A/C	CANOPY HOURS	Visual Status	A/C	CANOPY HOURS	Visual Status	A/C	CANOPY HOURS	Visual Status
05-090	260.7	8	06-118	154.3	9	07-131	92.7		07-142	193	20
05-102	95.7		06-119	8.5	1	07-133	49.4		07-143	143	4
05-103	3.6		06-121	184.5	6	07-134	62.4		07-144	147.9	3
06-108	273	3	06-122	397		07-135	158		07-145	108.7	
06-110	73.5	2	06-123	192.9	12	07-136	85		07-146	214.1	6
06-112	76.3					07-137	23.8		07-147	293.1	15
06-113	189.1	4	06-126	148.7	2	07-138	179.4	2	07-148	283.8	10
06-114	380.3	10	06-127	112	5	07-139	75.7		07-149	139.8	2
06-115	152.6		06-129	114.5		07-140	167.7	25	07-150	96.7	2
06-117	111.3	1	06-130	58.8	1	07-141	119.4	6	07-151	173.7	31
<b>Canopy Hours</b>						<b>Visual Status</b>					
1-99.9 Hours						Major Visual Anomalies					
100 - 199.9 Hours						Minor Visual Anomalies					
200+ - Hours						No Visual Anomalies					
Number Inserted In Box = Repairs In Zone 1											

**Attachment 8 (Added-KADENAAB)**

**67TH FIGHTER SQUADRON (67 FS) STANDARD F-15 TAIL CONFIGURATION**

**A8.1. (Added-KADENAAB) The graphic below (Figure A8.1. ) depicts the measurement and proper placement for the tail markings on non-Commander’s designated aircraft assigned to the 67 FS.**

**Figure A8.1. (Added-KADENAAB) 67FS Standard F-15 Tail Configuration.**

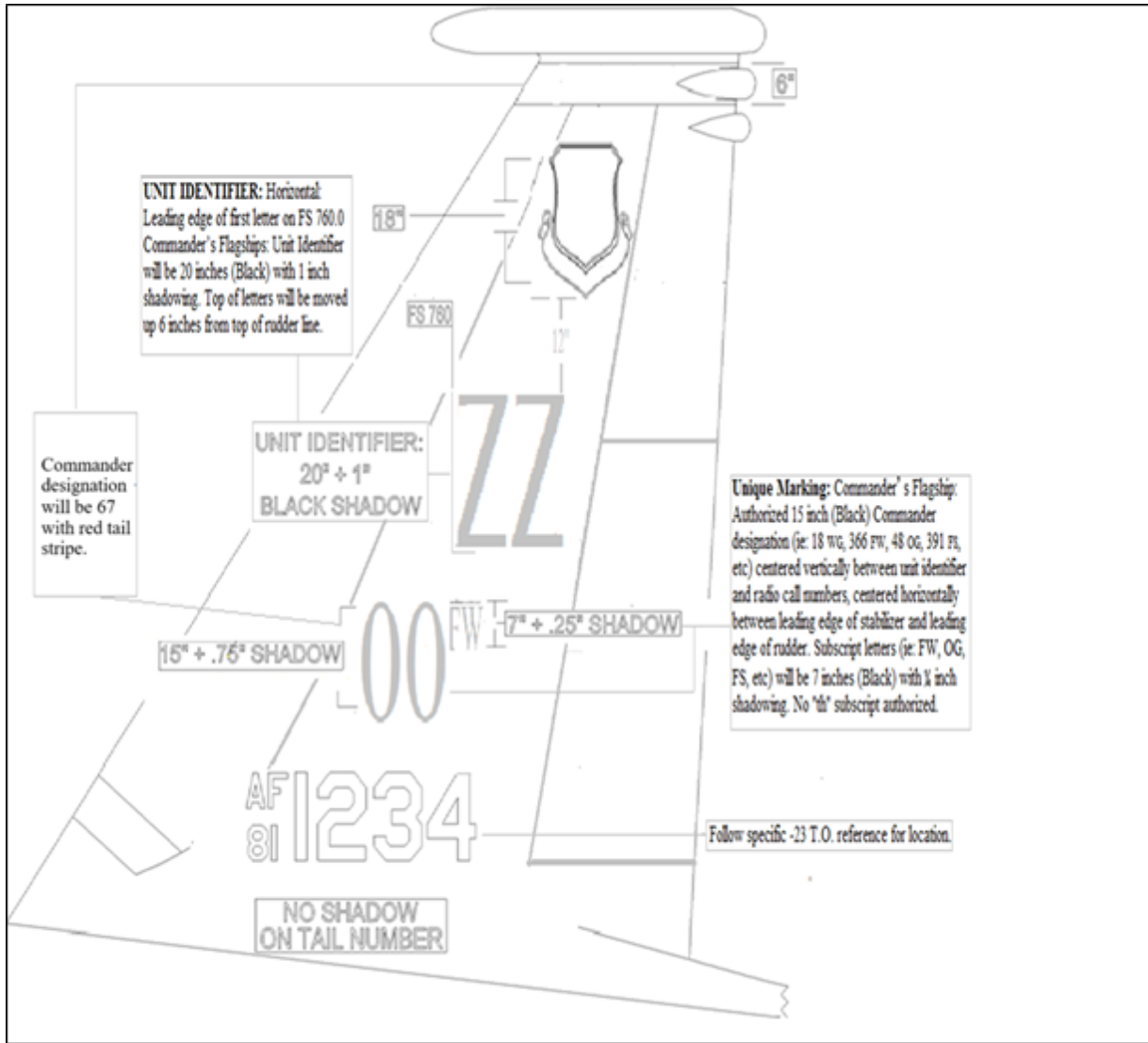


Attachment 9 (Added-KADENAAB)

67FS COMMANDER'S TAIL CONFIGURATION

A9.1. (Added-KADENAAB) The graphic below (Figure A9.1.) Depicts the measurement and proper placement for the tail markings on the 67 FS Commander's designated aircraft.

Figure A9.1. (Added-KADENAAB) 67 FS Commanders' Tail Configuration.

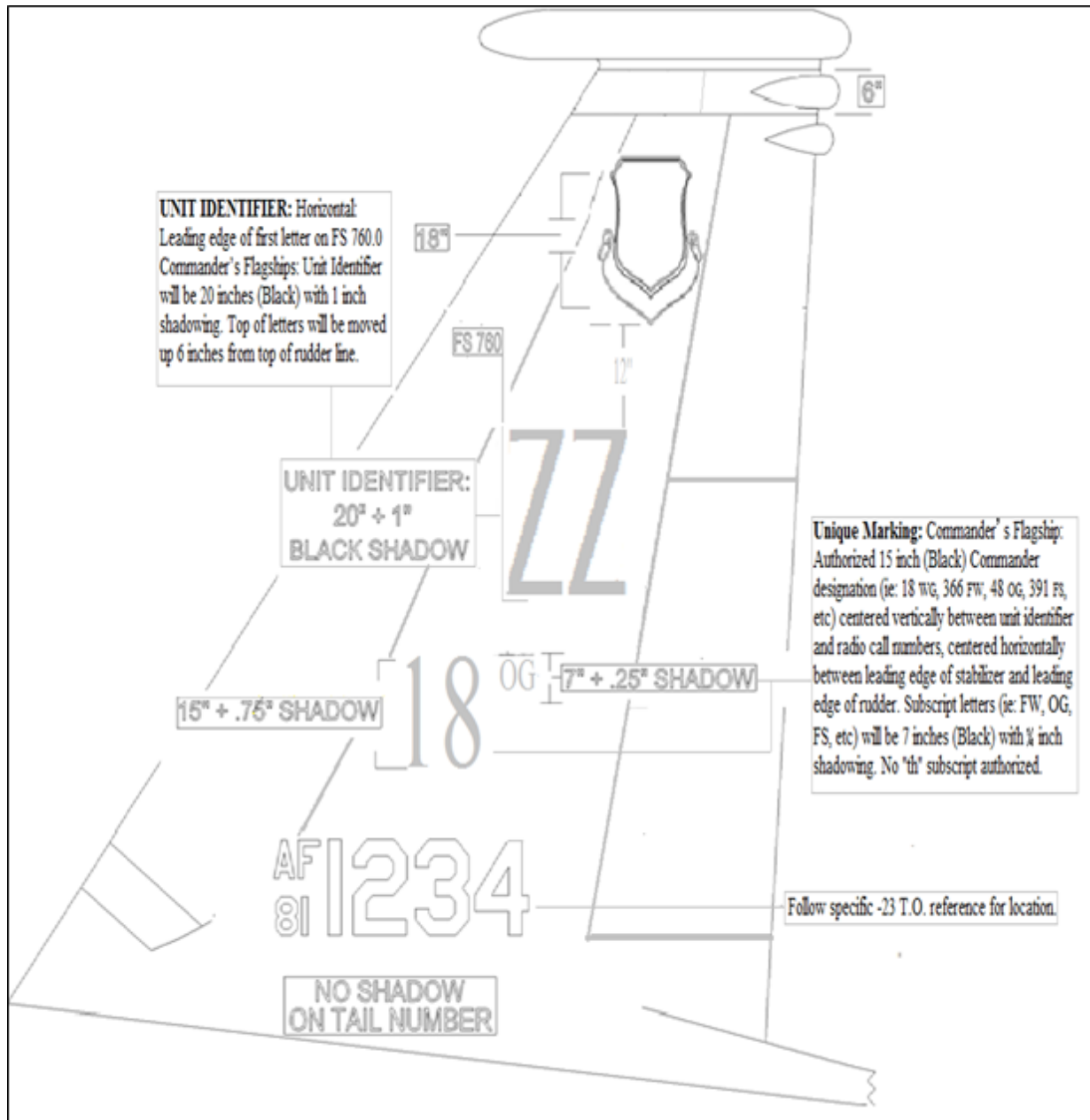


Attachment 10 (Added-KADENAAB)

18OG COMMANDER'S TAIL CONFIGURATION

A10.1. (Added-KADENAAB) The graphic below (Figure A10.1. ) depicts the measurement and proper placement for the tail markings on the 18 OG Commander's designated aircraft.

Figure A10.1. (Added-KADENAAB) 18 OG Commander's Tail Configuration.

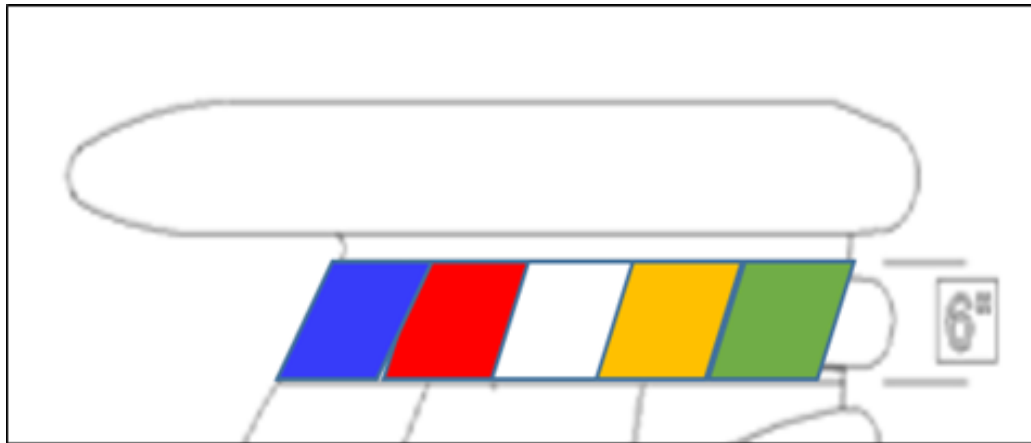


**Attachment 11 (Added-KADENAAB)**

**18WG AND 18OG COMMANDER'S TAIL STRIPE CONFIGURATION**

**A11.1. (Added-KADENAAB)** The graphic below (Figure A11.1. ) depicts a visual reference for 18 WG/OG Commander's tail stripe.

**Figure A11.1. (Added-KADENAAB) 18 WG/OG Commander's Tail Stripe Configuration.**

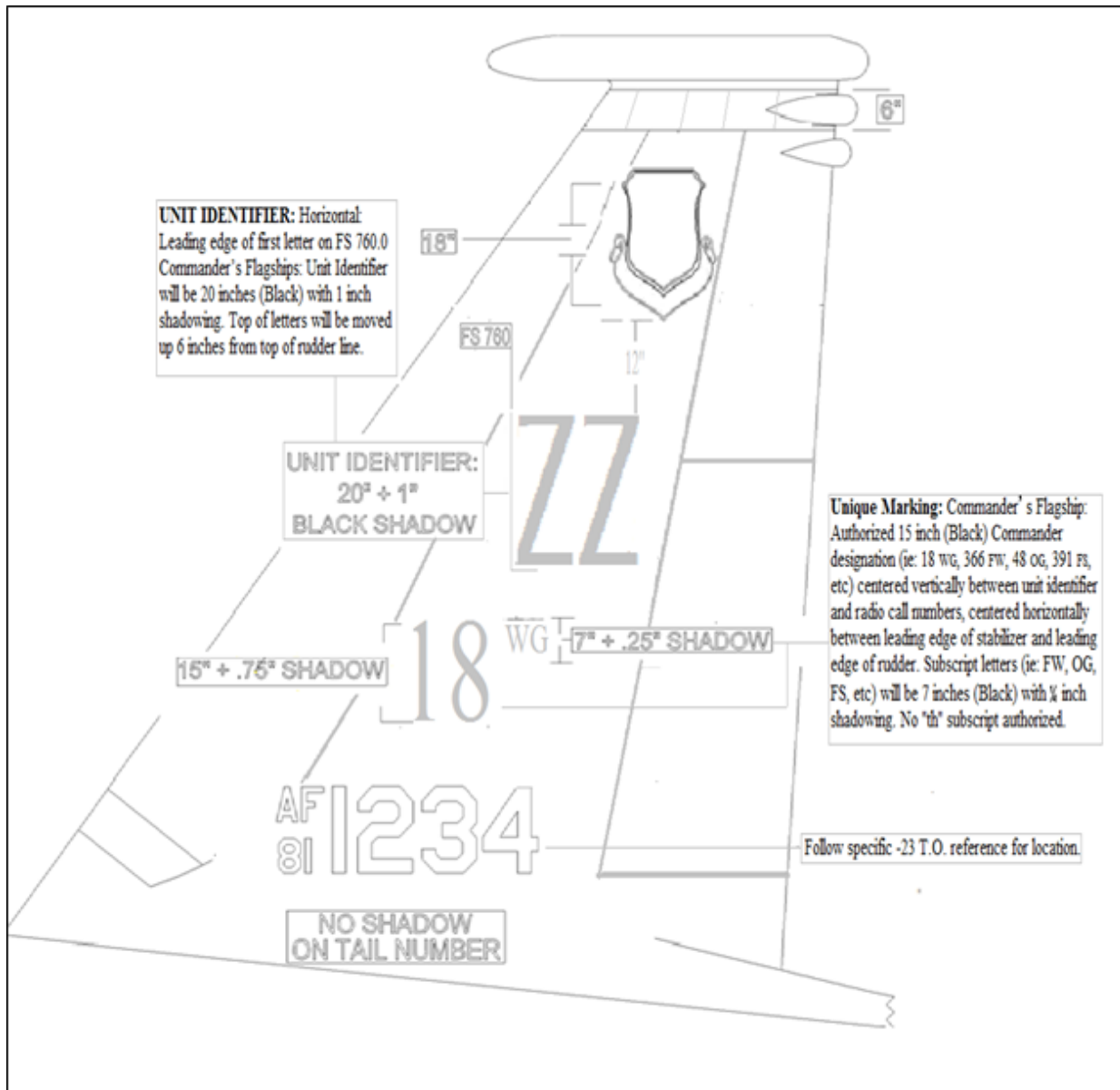


## Attachment 12 (Added-KADENAAB)

## 18WG COMMANDER'S TAIL CONFIGURATION

**A12.1. (Added-KADENAAB)** The graphic below (Figure A12.1. ) depicts the measurement and proper placement for the tail markings on the 18 WG Commander's designated aircraft.

**Figure A12.1. (Added-KADENAAB)** 18 WG Commander's Tail Configuration.



Attachment 13 (Added-KADENAAB)

ORGANIZATIONAL MARKING FOR 18 WG/OG COMMANDERS' JET

A13.1. (Added-KADENAAB) The graphic below (Figure A13.1. ) depicts a visual reference for the squadron patch order of precedence. The size from the top to the bottom of the patch will meet the 18” standard.

Figure A13.1. (Added-KADENAAB) Organizational Marking for 18 WG/OG Commanders' Jet.

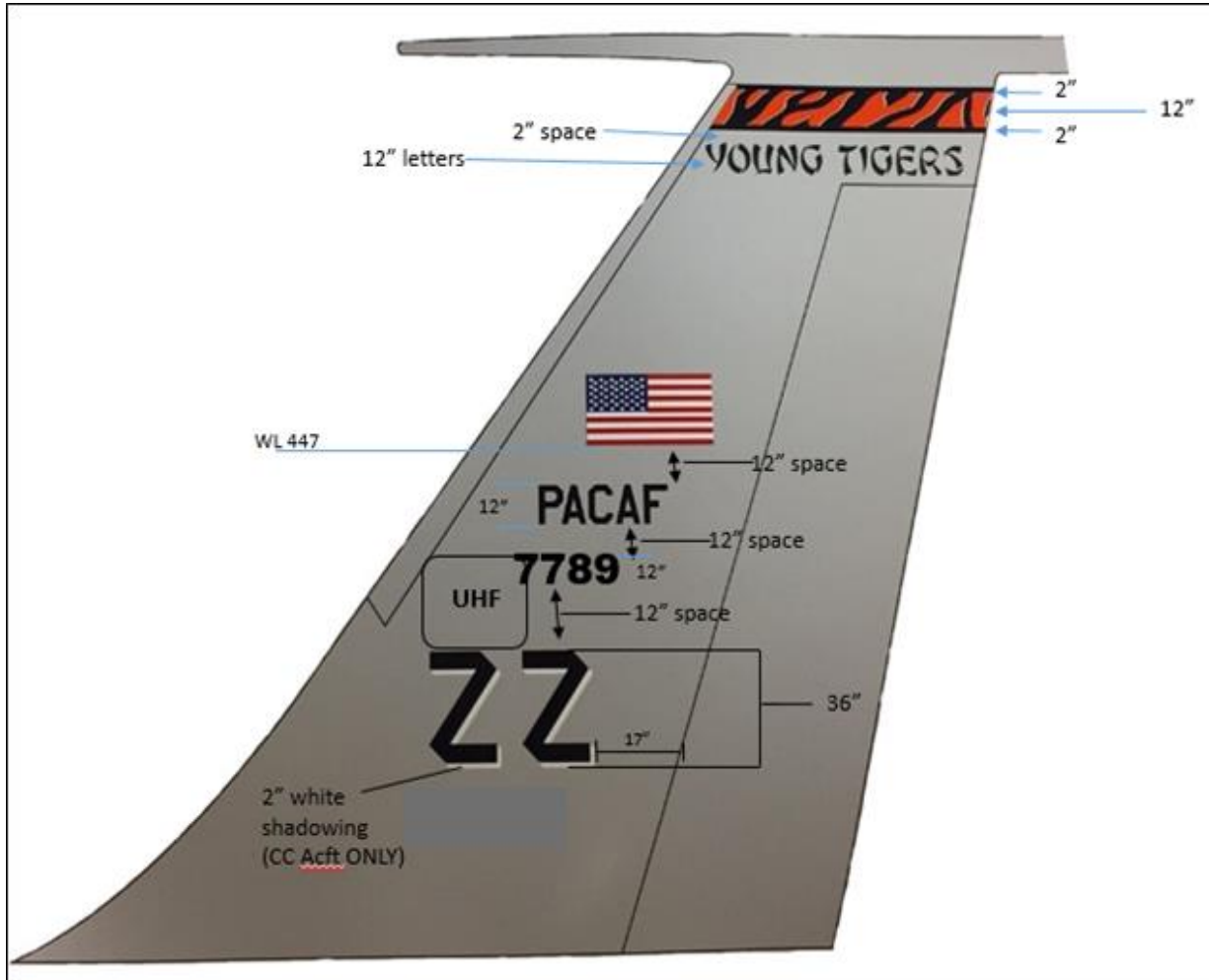


Attachment 14 (Added-KADENAAB)

909TH STANDARD KC-135 TAIL CONFIGURATION

A14.1. (Added-KADENAAB) The graphic below (Figure A14.1. ) depicts a visual reference for 909th standard KC-135 tail configuration. **Note:** These markings are in compliance with the PACAF Tail Marking Waiver on file with PACAF A4M and the Kadena Wing Corrosion Manager.

Figure A14.1. (Added-KADENAAB) 909th Standard KC-135 Tail Configuration.



**Attachment 15 (Added-KADENAAB)**

**909TH COMMANDER'S KC-135 CONFIGURATION**

**A15.1. (Added-KADENAAB)** The graphic below (Figure A15.1. ) depicts a visual reference for 909th Commander's KC-135 configuration. These markings are in compliance with the PACAF Tail Marking Waiver on file with PACAF A4M and the Kadena Wing Corrosion Manager.

**Figure A15.1. (Added-KADENAAB) 909th Commander's KC-135 Configuration.**

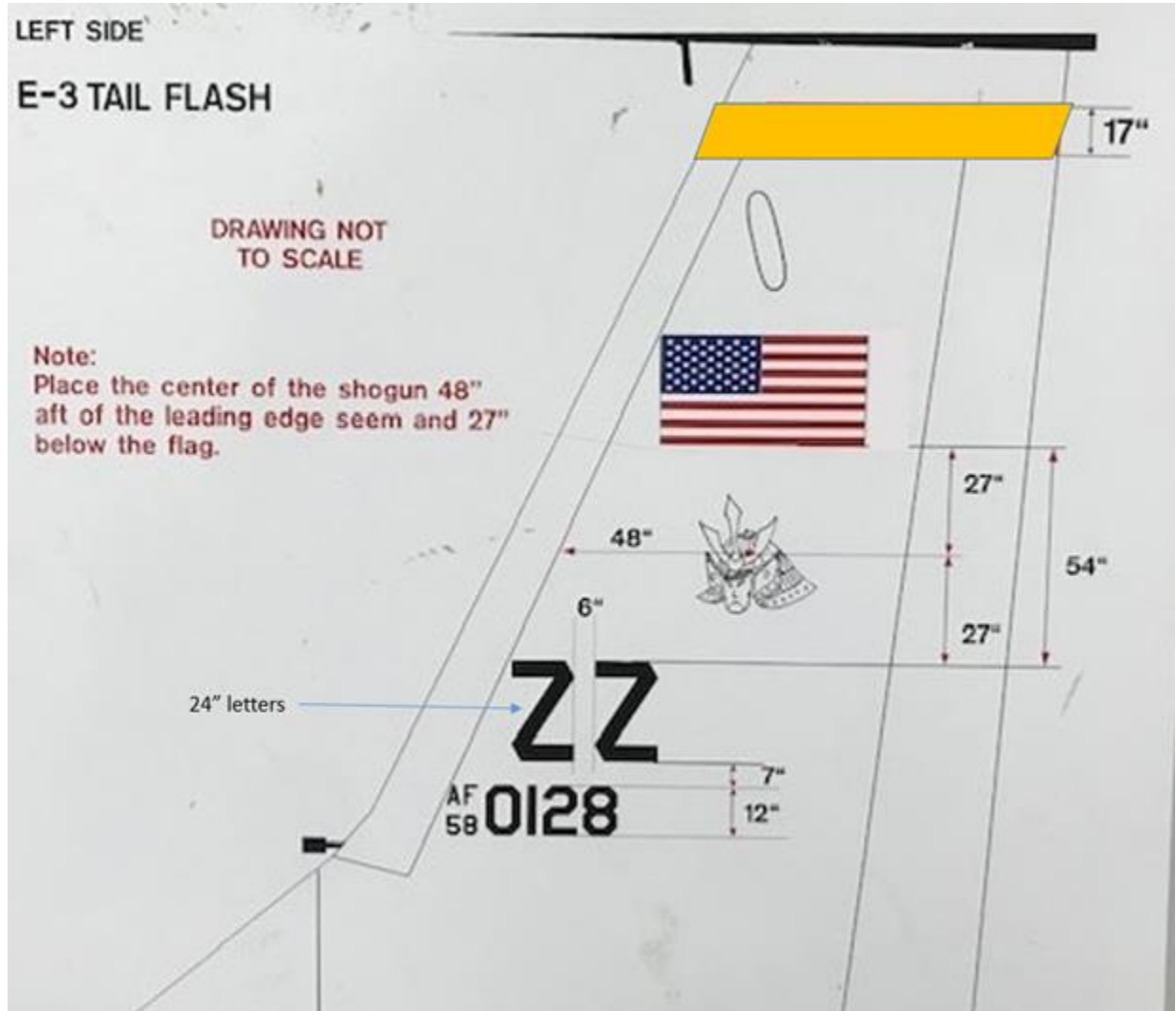


Attachment 16 (Added-KADENAAB)

961ST AIRBORNE AIR CONTROL SQUADRON (961 AACCS) STANDARD E-3 CONFIGURATION

A16.1. (Added-KADENAAB) The graphic below (Figure A16.1. ) depicts the measurement and proper placement for the tail markings on non-Commander's designated aircraft assigned to the 961 AACCS.

Figure A16.1. (Added-KADENAAB) 961 AACCS Standard E-3 Configuration.

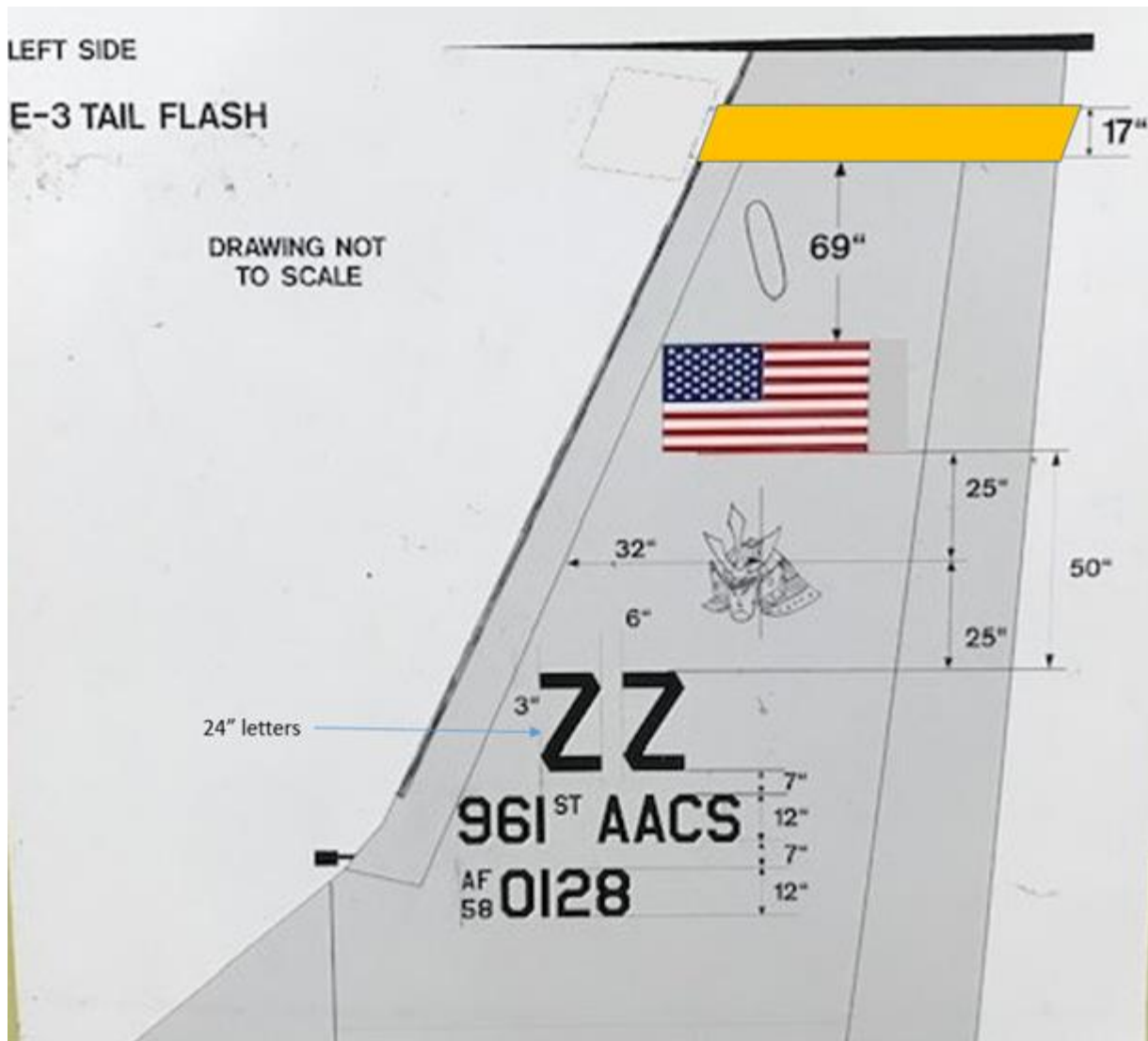


Attachment 17 (Added-KADENAAB)

961AACS COMMANDER'S E-3 CONFIGURATION

A17.1. (Added-KADENAAB) The graphic below (Figure A17.1. ) depicts the measurement and proper placement for the tail markings on the Commander's designated aircraft assigned to the 961 AACS.

Figure A17.1. (Added-KADENAAB) 961 AACS Commander's E-3 Configuration.

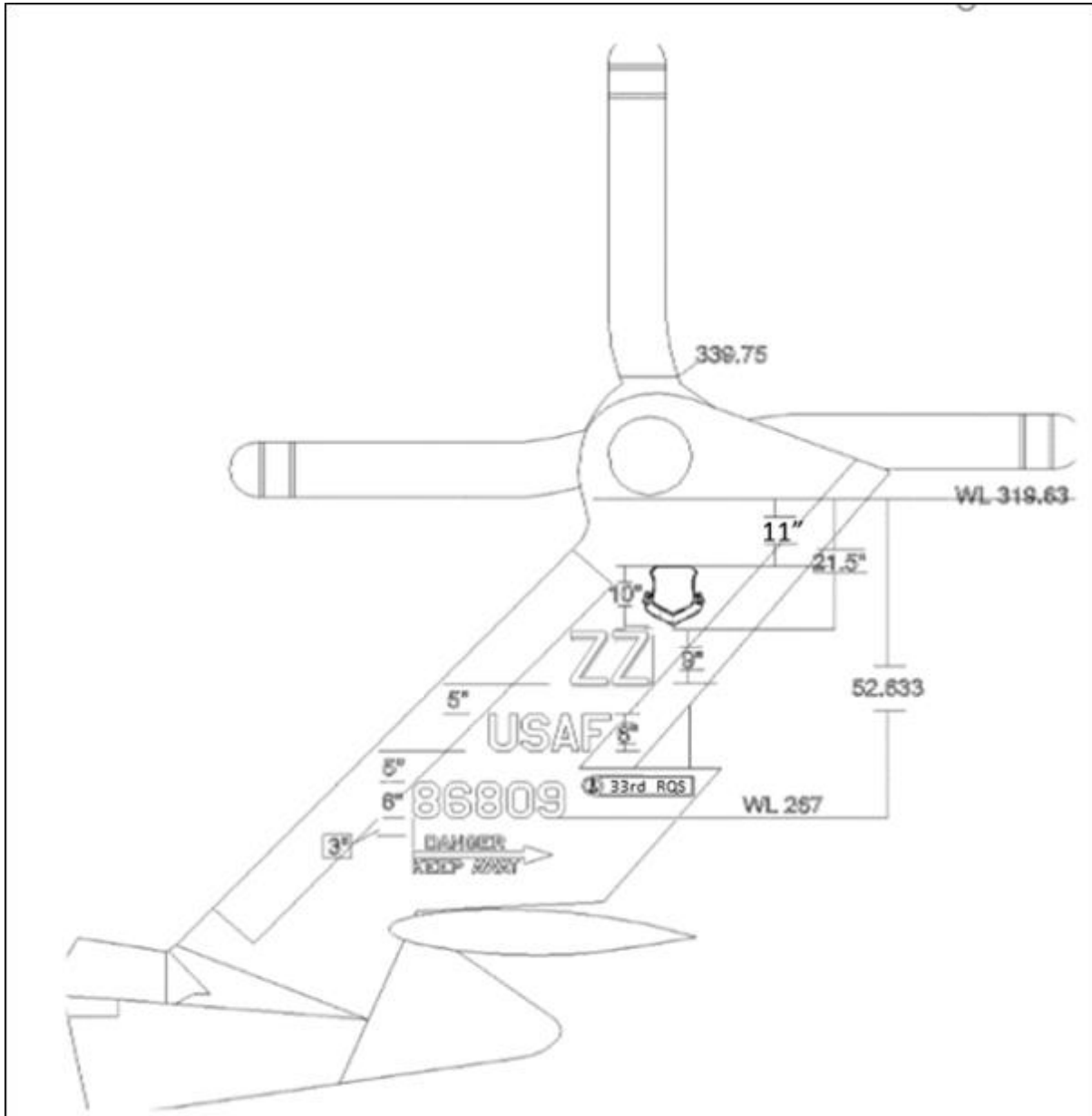


## Attachment 18 (Added-KADENAAB)

## 33HMU LEFT TAIL

**A18.1. (Added-KADENAAB)** The graphic below (Figure A18.1. ) depicts the measurement and proper placement for the left tail markings on HH-60 aircraft for 33d Rescue Squadron (33 RQS).

**Figure A18.1. (Added-KADENAAB)** 33 RQS Tail Configuration for HH-60 Left Tails.

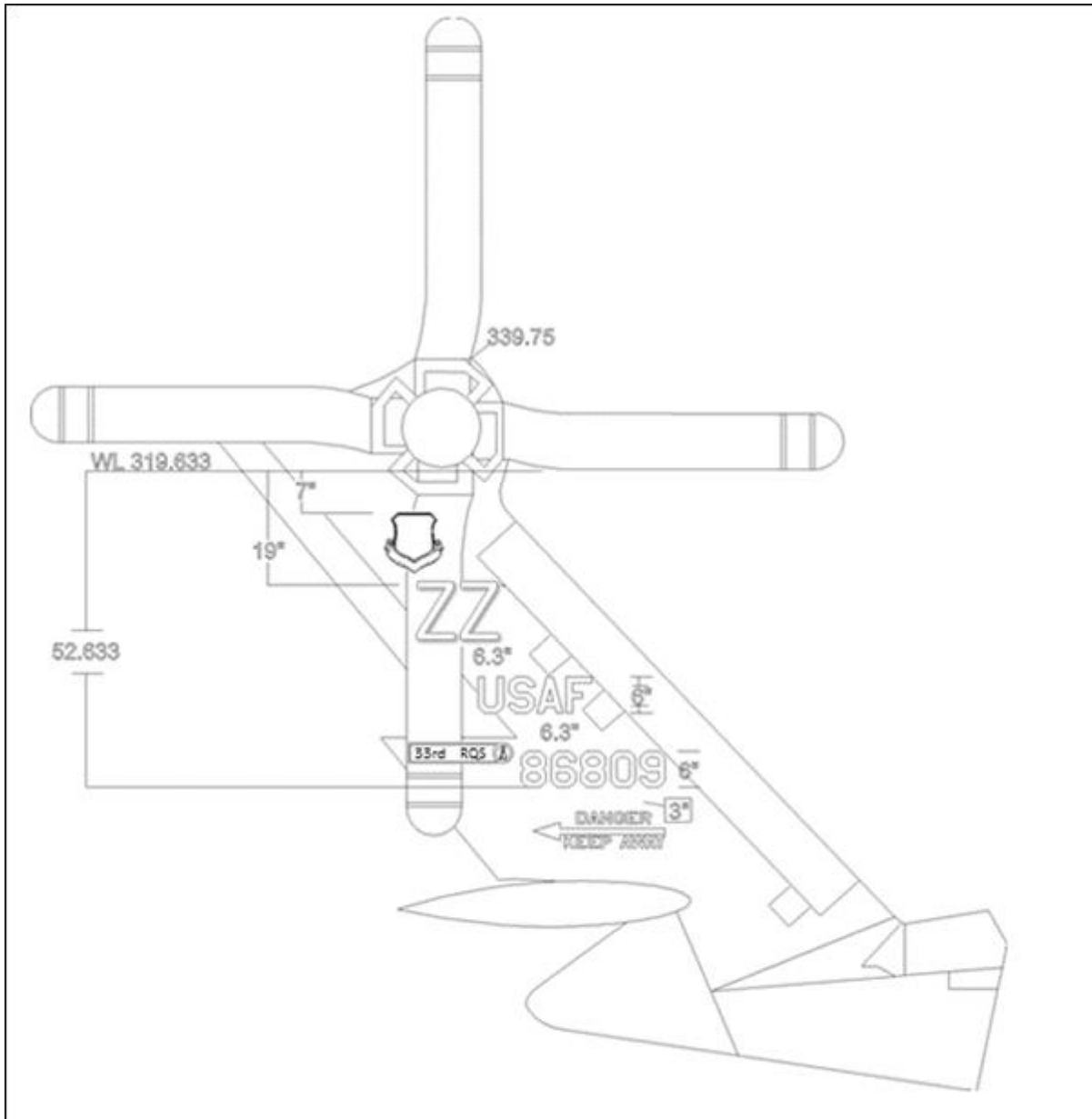


Attachment 19 (Added-KADENAAB)

33 HMU RIGHT TAIL

A19.1. (Added-KADENAAB) The graphic below (Figure A19.1. ) depicts the measurement and proper placement for the right tail markings on HH-60 aircraft for 33 RQS.

Figure A19.1. (Added-KADENAAB) 33RQS Tail Configuration for HH-60 Right Tails.

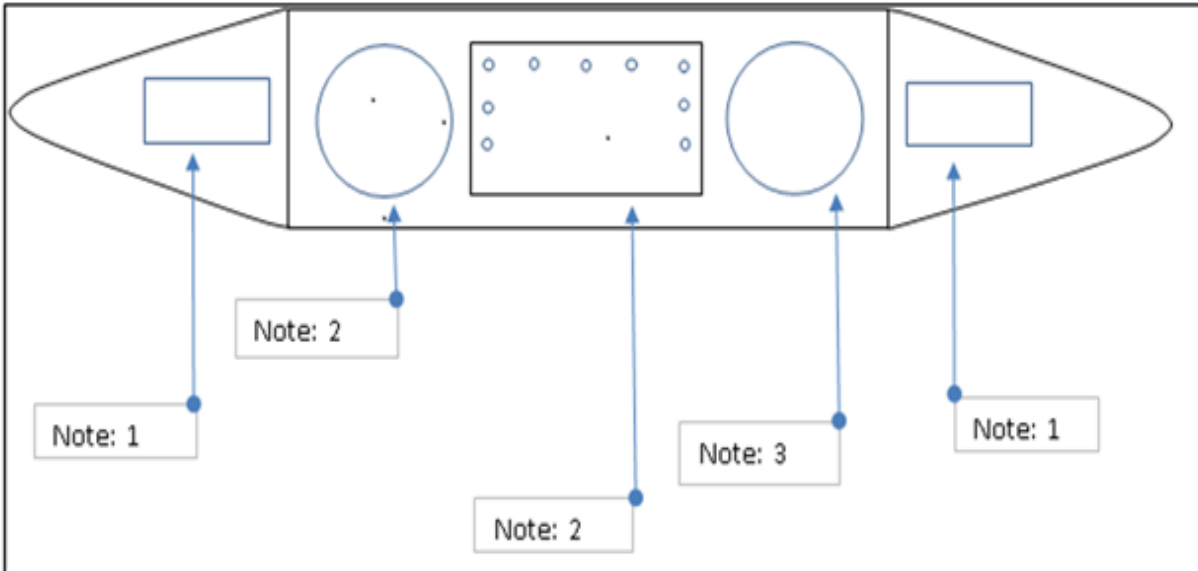


## Attachment 20 (Added-KADENAAB)

## 18WG AND 18 OG TRAVEL POD MARKINGS

**A20.1. (Added-KADENAAB)** The graphic below (Figure A20.1. ) depicts the measurement and proper placement for the markings on 18 WG and 18 OG travel pods.

**Figure A20.1. (Added-KADENAAB)** 18 WG and 18 OG Commander's Travel Pod Markings.

**Notes:**

1. Center unit specific icon between front/Tail cone seam and forward/aft body seam.
2. Center the forward unit emblem between forward body seam and cargo door. 67 FS/CC = 10-inch squadron emblem. 18 WG/CC, 18 OG/CC = 10 inch full-color PACAF emblem.
3. Center the aft unit emblem between cargo door and aft body seam. 67 FS/CC, 18 OG/CC = 10 inch 18 WG emblem. 18 WG/CC = 10 inch full-color 18 WG emblem.
4. Center names on cargo door; style, color and size of letters will conform to paragraph 6.2.

**Attachment 21 (Added-KADENAAB)****PAINT IDENTIFICATION BLOCK**

**A21.1. (Added-KADENAAB)** The graphic below (Figure A21.1. ) depicts the 18 WG paint identification block. This stencil will be added to every aircraft that is over coated by the 18 WG.

**Figure A21.1. (Added-KADENAAB) 18 WG Paint Identification Block.**

