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**Maintenance**



**CORROSION CONTROL PROGRAM**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction tailors procedures for management of Corrosion Control Program. It applies to all maintenance activities in the 301 Logistics Group (LG), 301 Maintenance Squadron (MXS) and 457 Fighter Squadron (FS) Maintenance (MA). For the purpose of this publication, 457 FS/MA will be referred to as Operations Squadron Maintenance. It organizes, directs and manages the Wing Corrosion Prevention Program according to AFPD 21-1, *Managing Aerospace Equipment Maintenance*, AFI 21-101, *Maintenance Management of Aircraft*, AFI 21-105, *Aerospace Equipment Structural Maintenance*, AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*, AFRC Supplement to T.O. 1-1-4, *Exterior Finishes, Insignia, and Markings Applicable to USAF Aircraft*, T.O. 1-1-691, *Aircraft Weapon System Cleaning and Corrosion Control*, T.O. 1-1-8, *Application and Removal of Organic Coatings*, T.O. 1-1-689, *Avionics Corrosion Control*, T.O. 35-1-3, *Corrosion Prevention, Painting and Marking of USAF Support Equipment (SE)*, the applicable weapon system specific -3/-23 technical order.

**1. Responsibilities:**

1.1. Wing, Group and Squadron Commanders Will:

1.1.1. Ensure applicable programming documents (Budget, Facilities, Manpower, Maintenance, etc.) include the Corrosion Prevention and Control.

1.1.2. Designate a Structural Maintenance Specialist (AFSC 2A773 or 2A790) from Fabrication Flight as Corrosion Manager.

1.2. 457FS Commander Will:

1.2.1. Designate a Flight Maintenance (FM) Flight Chief to coordinate with the program manager on new recommendations and suggestions to enhance the unit corrosion prevention program and for submittal to Corrosion Prevention Advisory Board (CPAB).

1.3. Corrosion Prevention and Control Manager Will:

- 1.3.1. Establish corrosion prevention and control training for all aircraft maintenance and Aerospace Ground Equipment maintenance personnel.
  - 1.3.2. Develop and submit comments or recommendations for improvement of the corrosion control program to Headquarters Air Force Reserves Command (AFRC) Logistics Group Maintenance (LGM) HQ AFRC/LGM.
  - 1.3.3. Approve equipment and materials used.
  - 1.3.4. Submit budget requests for equipment, materials, facilities, and manpower.
  - 1.3.5. Supplement AFRC corrosion directives as required to maintain a sound corrosion control program.
  - 1.3.6. Attend Department of Defense, Air Force Worldwide, and AFRC Corrosion Program managers meetings and workshops.
  - 1.3.7. Review and supplement if required, corrosion control work cards for assigned equipment based on mission and location.
- 1.4. Aircraft Structural Maintenance (ASM) Will:
- 1.4.1. Complete a corrosion inspection after each wash and documents the on an AFRC Form 165, **Aircraft After Wash Corrosion Inspection Checklist**.
  - 1.4.2. Clear the AFTO Form 781A, **Maintenance Discrepancy and Work Document**.
  - 1.4.3. Ensure (ASM) technicians receive adequate training to accomplish assigned tasking.
  - 1.4.4. Ensure no other maintenance is accomplished on aircraft or equipment when hazardous or toxic materials are in use.
  - 1.4.5. Take the AFRC Form 163, **Aircraft Wash Supervisor's/Employees' Certification**, AFRC Form 164, **Aircraft Wash Cleanliness Inspection Checklist** and AFRC Form 165 when complete and place them in the Corrosion Log located in the Structural Maintenance Technician Office.
- 1.5. OSM Supervision Will:
- 1.5.1. Qualify, train, and certify personnel in the correct procedures for aircraft washing and cleaning.
  - 1.5.2. Procure and maintain Personal Protective Equipment used during the wash process.
  - 1.5.3. Appoint a Wash Supervisor.
    - 1.5.3.1. The Wash Supervisor will ensure the aircraft washing team uses an AFRC Form 163.
  - 1.5.4. Accomplish an aircraft cleanliness inspection and document on an AFRC Form 164.
  - 1.5.5. Ensure the wash facility is clean and equipment is properly maintained and stored after the completion of each wash.
  - 1.5.6. Ensure the Aircrew Debriefing Record and AFTO Form 781A, are annotated when an aircraft flies over salt water, below 3,000 feet.
- 1.6. Quality Assurance Will:
- 1.6.1. Designate wash monitors who have attend J3AZR/J4AZT2A753 000 Aircraft Corrosion Control or an equivalent training course approved by HQ AFRC/LGM.

- 1.6.2. Monitor a minimum of two aircraft washing operations per quarter.
- 1.6.3. Ensure the following requirements are met as a minimum:
  - 1.6.3.1. Only authorized products and equipment are used.
  - 1.6.3.2. Wash crewmembers are properly trained and qualified. Plans and Scheduling schedules aircraft washes and are accomplished on time.
- 1.6.4. Inspect aircraft for cleanliness, corrosion, and lubrication according to the preprinted AFTO Form 781A and applicable technical order.
- 1.6.5. Ensure the AFTO 781A is properly documented.
- 1.7. Aerospace Ground Equipment (AGE) Supervisor Will:
  - 1.7.1. Establish and enforce an effective Corrosion Program on assigned AGE and support equipment.
  - 1.7.2. Ensure all equipment is cleaned and corrosion treated during each Periodic Inspection.
- 1.8. Munitions Flight Supervisor Will:
  - 1.8.1. Establish and enforce an effective Corrosion Program on assigned munitions support equipment.
  - 1.8.2. Ensure all equipment is cleaned and treated for corrosion during each Periodic Inspection.

## **2. Cleaning and Washing of Aircraft:**

- 2.1. A complete exterior and interior cleaning will be accomplished at wash intervals and prior to each phase inspection.
- 2.2. The minimum entries required for an aircraft wash are:
  - 2.2.1. Aircraft taped and prepped for wash on a red X.
  - 2.2.2. Aircraft after-wash cleanliness inspection due on a red dash and cleared by FSM Supervision.
  - 2.2.3. Aircraft after-wash corrosion inspection due on a red dash and cleared by Structural Maintenance.
  - 2.2.4. Aircraft due after wash lube on a red X.

## **3. Training/Certification:**

- 3.1. All Aircraft Maintenance, Aerospace Ground Equipment, Munitions, and Avionics personnel will receive a locally developed corrosion prevention, control, and identification training under the direction of the Corrosion Manager. Training will be completed every two years.
- 3.2. This instruction will be reviewed annually and re-certified with Training Management.

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