

**11 SEPTEMBER 2003**



**Maintenance**

**FOREIGN OBJECT PREVENTION PROGRAM**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction implements AFD 21-1, *Managing Aerospace Equipment Maintenance*. It establishes procedures for Foreign Object Prevention Program. All 911 Airlift Wing personnel will comply with Foreign Object Damage (FOD) Prevention procedures. It carries out tenets of AFI 21-101, *Maintenance Management of Aircraft* and AFI 91-204, *Safety Investigations and Reports*.

**1. GENERAL:**

1.1. The FOD Prevention Program will not be limited to aircraft and aircraft jet engines. It will be in effect at all times, before, during and after completion of all tasks. FOD is defined as any damage to an aircraft engine, aircraft system, equipment or tire caused by an external foreign object, which may or may not degrade the required safety and/or operational characteristics of the engine, aircraft system, or tire. IAW AFI 21-101, Para 18.23 the Vice Wing Commander (AW/CV) is responsible for ensuring an effective Foreign Object Damage (FOD) Prevention Program is established.

1.2. The Designated FOD areas are determined to be:

- 1.2.1. Aircraft parking ramp
- 1.2.2. All aircraft maintenance facilities
- 1.2.3. Approach aprons to hangars

**2. RESPONSIBILITIES:**

2.1. The Vice Wing Commander (CV) is responsible for ensuring an effective Foreign Object Damage Program is established. He/she will be assigned as the FOD Prevention Program Manager. They will appoint a Wing FOD Monitor as outlined in AFI 21-101 Section 18.23.7.1.

2.2. All flight chiefs and workcenter supervisors will brief their personnel on the FOD Prevention Program and enforce the compliance with the checklist.

2.3. Maintenance Operations Center (MOC) will notify the FOD Prevention Manager and Quality Assurance on all FOD discrepancies and incidents.

2.4. The Maintenance Group Quality Assurance Section will monitor all discrepancies, incidents and damage because of FOD either during routine inspections or as directed by Managers.

### 3. Mishap Investigations and Reporting:

3.1. As outlined in AFI 21-101 Section 18.23.9, when FOD damage is discovered (both suspected and confirmed) report the incident to the MOC. The MOC will notify QA and the Wing FOD Monitor.

3.2. FOD damage will be classified as either preventable or non-preventable.

3.3. Wing FOD Monitor will report all FOD incidents to Base Safety immediately and the AFRC Manager by telephone, fax or e-mail as soon as damage is known, but no later than 24 hours after occurrence.

### 4. Bird Strike Procedure (BASH Program):

4.1. Any person discovering bird strike damage and/or remains will notify the MOC. The MOC will notify QA for investigation.

4.2. QA will inform the Base Safety Office and then investigate the bird strike for possible FOD damage to the aircraft.

### 5. Dropped Object Prevention Program (DOPP):

5.1. Personnel will adhere to DOPP prevention program and follow AFI 21-101 section 18.23.11 and 911 AWI 21-102, *Dropped Object Prevention and Reporting Program*.

### 6. Specific Guidance:

6.1. Engine inlet and dust covers, APU air intake scoop plug, air conditioning scoop plugs and pitot covers will be installed at all times except during operation of engine/APU, or during maintenance in the air intake and exhaust sections of engines. Personnel will follow guidance in preflight work cards for removal of ducts, ports and probes.

6.2. IAW AFRC Supplement TO 00-20-1 Table A1-1: Engine intakes and exhausts will be inspected for FOD prior to each engine start and documented with a red dash in the symbol block on the AFTO Form 781A with the following statement: "**All four engine intakes and exhausts inspected for FOD prior to engine start.**"

6.3. All personnel approaching FOD designated areas will comply with FOD prevention procedures (i.e. Tire check at ECP and ramp access points).

6.4. Consolidated Tool Kit's (CTK) and rags will be accounted for as procedures outlined in AFI 21-101 and 911 AW MOI 21-121.

6.5. FOD walks will be held at least weekly except during inclement weather conditions (i.e. cold, rain, ice, snow etc.), at the discretion of the Wing FOD Monitor.

6.6. Flashlights with clips will have the clips removed prior to use on or around aircraft, uninstalled engines, and AGE.

6.7. Personal tools are not authorized on the flight line or in any maintenance area. (e.g. mini-mag flashlights, leathemans, buck knives, etc). Government tools permanently assigned to individuals or duty position (i.e. government issued headsets, flashlights, etc.) will be marked IAW AFI 21-101.

## 7. Wearing of Apparel:

7.1. The flightline is a **no-hat**, no salute area. However, in extreme cold weather, cold weather type hats may be worn inside this area if secured.

7.2. Wigs, hairpieces, metal and hard plastic hair fasteners, finger rings, necklaces (except for line badge lanyard), earrings, decorative hatpins, or hatpins of any kind and other jewelry will not be authorized for wear in FOD designated areas.

7.3. Wearing of loose clothing and/or articles around engine/equipment is prohibited.

7.4. Line badges will be secured with either a plastic armband, tying nylon cord to clothing, or using lanyard type necklaces. Metal clips will not be worn under any circumstances.

7.5. Metal rank insignia will not be worn on the flight line or other designated FOD areas. Metal insignia may be encased in plastic and worn on uniform.

## 8. FOD Prevention Committee:

8.1. The AW/CV will chair the committee. In the absence of the AW/CV, the MXG/CC will chair. The Committee will have a meeting at least quarterly unless FOD Damage rate is above established standards, in that case a meeting will be held monthly.

8.2. Minimum attendee representatives are Group Commanders, Commanders of units with maintenance personnel, Safety, Airfield Manager, Security Forces, Griffin Services, CE and managers of contractors with access to designated FOD areas. The chairperson should designate additional attendees as required. The meeting will identify negative trends and develop action plans to resolve them. The meeting should also be used to recognize personnel making significant contributions to FOD prevention.

8.3. Suggested agenda items include (see AFI 21-101 section 18.23.10.1).

CARL E. VOGT, Colonel, USAFR  
Commander