

9 June 1999

Maintenance

AIRCRAFT STRUCTURAL INTEGRITY
PROGRAM



COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: 706FS/MAOS (MSG Kevin Smith)
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This instruction implements AFRPD 21-1, *Managing Aerospace Equipment Maintenance*. It defines the Aircraft Structural Integrity Program (ASIP) for the 926th Fighter Wing. The ASIP involves the periodic collection of certain aircraft stress data that is recorded during known flight conditions. This data provides a basic tool for predicting and monitoring the safe structural life of an aircraft. It also is used to determine if a structural repair or modification is needed. References: T.O. 1A-10A2-34JG-1, T.O. 1A-10A-38, T.O. 1A-10A-2-34MS-1 and AFI 3-1001, **Aircraft Structural Integrity Program**. This FWI applies to all A-10A and OA-10A aircraft Commanders and maintenance supervisors compliance with this FWI.

SUMMARY OF REVISIONS

Changes paragraph 2.2.1 and 2.2.2. Properly renumbered from 2.2. to 2.6. A (I) indicates revisions from the previous edition.

1. Responsibility . The FSM Superintendent/Specialist Flight Chief are the ASIP project monitors. The Specialist Flight Chief will appoint a Flight Load Data Recording System (FLDR) monitor.

2. Procedures . The data recorded on the Flight Load Data Recording System (FLDR) tape cartridge and other indicators is entered on AFTO Form 11, *A-10 Recording System Status* and AFTO Form 278, *A-10 Flight Log*, by ground crews and forwarded to Air Logistics Centers (ALC). The front of the AFTO Form 781F, *Aerospace Vehicle Flight Report and Maintenance Document*, will contain a 2" square red placard with the letters FLDR to denote an aircraft configured with recorders.

2.1. Duties of QA:

2.1.1. Monitors the ASIP Program.

2.2. Duties of Specialist Flight Chief:

2.2.1. Ensures FLDR monitor records all changes of serially controlled items listed on AFTO Form 11, no later than the third workday of each month. This report will be maintained by the FLDR monitor. Any system that is inoperative for any part of the month will be included in this report. The reason for the system down time will be provided along with a complete document number for any parts on order. Included will be the date system became inoperative and the date returned to operational status.

2.2.2. Ensures the FLDR monitor is responsible for making copies of AFTO Form 11 and reporting to the Air Logistics Center as per T.O. 1A-10A-38, Para 3-5.2.2. Files will be maintained by the FLDR monitor as required.

2.2.3. Ensures required action is taken to maintain a special level of 2 FLDR tape cartridges (NSN 6610-00-084-8695) by Base Supply for each aircraft that require cartridges.

2.3. Duties of FSM Supervisor:

2.3.1. Ensures that crew chiefs comply with procedures outlined in T.O. 1A-10A-6 and associated work cards. If less than 25 percent of the FLDR cartridge tape remain, a work order will be issued to replace the tape. The crew chief for an AGCS technician will complete the AFTO Form 495, *Flight Record System Data*, affixed to the cartridge.

2.3.2. Ensures the crew chief or APG technician forwards the serial numbers of the removed and replacement cartridge to the FLDR monitor anytime a cartridge is replaced.

2.3.3. Ensures the crew chief completes the AFTO 278 for each flight and turns it in within 48 hours to the debriefer. The data is then submitted to Plans & Scheduling for tracking and reporting to the Air Logistics Center as per T.O. 1A-10A-38, Para 2-3. Files will be maintained Plans & Scheduling as required.

2.4. Duties of Crew Chiefs:

2.4.1. Ensures the cartridge tape is sufficient to cover entire period when aircraft is cross-country. This may require changing the cartridge before the aircraft departs home station.

2.4.2. Ensures sufficient FLDR cartridges (NSN 6610-00-084-8695) are included in all mobility packages when affected aircraft are deployed. Spare AFTO Forms 11 and 278 will also be required.

2.4.3. Annotate previous readings of counter 1, 2, & 6 on AFTO 278 for next flight.

2.4.4. If counter 6 has rotated, notify X-Ray to notify debrief of possible Over "G".

2.5. Duties of Debriefing:

2.5.1. Collects AFTO Form 278 from debriefing and inputs into the Flight Log Data Entry Program (FOXPRO).

2.5.2. Monthly transmits FOXPRO data to the Air Logistics Center as per T.O. 1A-10A-38, figure 3-12a.

2.5.3. If X-Ray notifies of counter 6 rotation, determine from Pilot if actual Over "G".

2.5.4. Ensure AFTO 278 is filled out entirely and properly including mission codes, etc.

2.6. Duties of Pilot:

| 2.6.1. Enter mission code and rounds expended on AFTO 278.

JIM G. MILLS, Col, USAFR
Commander