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Acquisition

**AIRCRAFT STRUCTURAL INTEGRITY
PROGRAM**

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This instruction defines the responsibilities and procedures followed by appropriate organizations in implementing and sustaining the Aircraft Structural Integrity Program (ASIP). It implements Air Force Policy Directive (AFPD) 63-10, *Aircraft Structural Integrity*. It applies to all 302 Airlift Wing (AW) personnel involved in the maintenance and operation of aircraft. This publication references DoD Regulation 5000.2, *Mandatory Procedures for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs*, Military Hand Book (MIL-HDBK)-1530, *General Guidelines for Aircraft Structural Integrity Program*, and *Technical Order, (T.O.) 1C-130-101, Implementation of C-130 Series Aircraft Usage Report*. It further augments Air Force Instruction (AFI) 21-101, Air Force Reserve Command (AFRC) Sup1, *Aerospace Equipment Maintenance Management*, and AFI 63-1001, *Aircraft Structural Integrity Program*.

1. General Information. The C-130 ASIP is managed by the C-130 System Program Office, WRALC/LBRA. This office analyzes data provided by unit operations and maintenance functions using a web-based program called Automated Inspection, Repair, Corrosion, and Aircraft Tracking (AIRCAT). Operations personnel input aircraft usage data using the Usage Data Input (UDI) segment and aircraft maintenance personnel utilize the Inspection Corrosion And Repair Recording (ICARR) segment for documenting required ASIP inspections, aircraft structural repairs, and reports of damage to aircraft structures. A major function of the USAF-AIRCAT system is to provide data to generate the Aircraft Structural Integrity Program (ASIP) report. This report is used to make decisions regarding modifications, acquisition, reassignment, and retirement of the Air Force C-130 aircraft.

2. Responsibilities.

2.1. The Maintenance Group (MXG) Commander will appoint a member of the Maintenance Squadron (MXS) as the group ASIP Project Officer (PO). Ideally, the individual appointed for such duties should come from the Fabrication Branch, as they are responsible for the majority of input into

ICARR. An alternate PO from the branch may also be appointed to assist in ensuring ASIP data is effectively being captured.

2.2. In addition to the duties outlined in AFI 21-101, AFRC Supplement 1, the group ASIP Project Officer (PO)/alternate will:

2.2.1. Periodically review ICARR data submitted by the Aircraft Structural Maintenance (ASM) and Non-Destructive Inspection (NDI) sections,

2.2.2. Coordinate with the group Workgroup Manager to ensure the latest version of software is being used on all group personal computers,

2.2.3. Ensure Point of Contact information is current and provided to the ASIP Manager, WRALC/LBRA,

2.2.4. Submit ASIP agenda items to the Product Improvement Working Group (PIWG) focal point in Quality Assurance for submission to the annual C-130 PIWG conference,

2.2.5. Act as the focal point for education and training programs related to ASIP and ensure adequate training is being conducted for software users,

2.2.6. Ensure that data for required ASIP inspection, corrosion, and repair data is being captured, when deployed for extensive periods of time. This will be accomplished through the use of a portable laptop computer with the required programs or by using locally-formatted worksheets to capture such information. The PO/Alternate will ensure the data is transferred to the AIRCAT database in a timely manner, upon return to home station, or when an internet connection capable of processing such data securely, can be obtained.

2.3. The 731st Airlift Squadron Commander will:

2.3.1. Ensure flight engineers are completing C-130E/H Series Flight Data Worksheets for each flight in accordance with (IAW) Technical Order (T.O.) 1C-130-101, *Implementation of C-130 Series Aircraft Usage Report* procedures,

2.3.2. Designate personnel for data entry into the UDI segment of AIRCAT,

2.3.3. Establish a means for capturing flight data when deployed for extensive periods of time and ensure the data is transferred to the AIRCAT database in a timely manner.

2.4. MXG Quality Assurance will incorporate ASIP monitoring inspections into the unit Maintenance Standardization Evaluation Program. The Chief Inspector, in coordination with the MXG/CC, will establish the criteria necessary for measuring the unit's compliance with adequate data input. These criteria will be incorporated into the unit's Maintenance Standardization and Evaluation Program's program plan.

2.5. Maintenance Operations Flight Plans, Scheduling, and Documentation (PS&D) will review all TO 1C-130A-6 changes/revisions and ensure ASIP inspections are current in the G081 Maintenance Information System.

2.6. The Avionics Flight Superintendent will act as the group project officer for the Aircraft Information Program (AIP), which supports ASIP, and will ensure the requirements of AFI 21-101, Chapter 18 are accomplished.

2.7. Individual users of the applicable AIRCAT segments (ICARR or UDI) will receive formal training via the United States Air Force (USAF)-AIRCAT contractor (when available) or by On-the-Job

Training (OJT) from task-qualified individual trainers at the unit level. OJT will closely mirror the training syllabus used by the contractor to the greatest extent possible and will be documented on an AF IMT 797, **Job Qualification Standard Continuation/Command JQS** or other appropriate means.

WILLIAM P. KANE, Brig Gen, USAFR
Commander

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

DoD Regulation 5000.2, *Mandatory Procedures for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs*, AFPD 63-10, *Aircraft Structural Integrity*
AFI 21-101, AFRC Sup1, *Aerospace Equipment Maintenance Management*
AFI 63-1001, *Aircraft Structural Integrity Program*
MIL-HDBK-1530, *General Guidelines for Aircraft Structural Integrity Program*
TO 1C-130-101, *Implementation of C-130 Series Aircraft Usage Report*

Abbreviations and Acronyms

AFI—Air Force Instruction
AFPD—Air Force Policy Directive
AFRC—Air Force Reserve Command
AIP—Aircraft Information Program
AIRCAT—Automated Inspection, Repair, Corrosion, and Aircraft Tracking
ASIP—Aircraft Structural Integrity Program
ASM—Aircraft Structural Maintenance
AW—Airlift Wing
IAW—In Accordance With
IMT—Information Management Tool
ICARR—Inspection Corrosion And Repair Recording
MIL-HDBK—Military Hand Book
MXG—Maintenance Group
MXS—Maintenance Squadron
NDI—Non-Destructive Inspection
OJT—On-the-Job Training
PIWG—Product Improvement Working Group
PO—Project Officer
PS&D—Maintenance Operations Flight Plans, Scheduling, and Documentation
UDI—Usage Data Input

USAF—United States Air Force

T.O.—Technical Order