

STRUCTURAL REPAIR
(KC-135)

1. **Objective.** As prescribed in AFI 38-201, *Determining Manpower Requirements*, formerly designated as AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description for varying levels of workload volume.

2. **Authority.** Air National Guard (ANG) Regulation 66-14, *Maintenance Management*, 13 July 1988, contains policy and procedural guidance for the Structural Repair work center. This ANGMS was developed in accordance with the functional review procedures depicted in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.

3. **Applicability.** This standard applies to all ANG KC-135 units with an established Structural Repair function. This standard applies to peacetime operations only.

4. **Standard Data:**

- a. Classification. Type III.
- b. Approval Date. 25 November 1992.
- c. Man-Hour Data Source. Operational Audit (historical records and technical estimate techniques).
- d. Standard Man-Hour Equation. $Y = 9.758 + 2.975X$.
- e. Workload Factor:
 - (1) Title: A Programmed Flying Hour.
 - (2) Definition: The average monthly programmed flying hours.
 - (3) Source of Count. USAF Program Document, Volume II, maintained by NGB/FM.

5. **Application Instructions:**

- a. The valid man-hour range for this ANGMS is 569.97 through 949.95.
- b. The application instructions are as follows:
 - (1) Obtain the most current workload factor value for the workload factor as outlined in paragraph 4e above.
 - (2) Substitute this value in the man-hour equation for X and divide the resulting man-hours by the current civilian Man-Hour Availability Factor to determine requirements.
 - (3) Use the man-hour break point table developed by HQ USAF/PRQE to determine the whole manpower requirements.
 - (4) On AF Form 1113, Manpower Requirement column, find the column which represents the number of whole manpower requirements. Read up and down the column and across to the Air Force Specialty Title column to determine requirements by Air Force Specialty Code.

6. **Statement of Conditions:**

- a. There were no general conditions (environment, equipment, or facility) which had an impact on the development or application of this manpower standard.
- b. There were no approved enhancements that impacted the man-hour equation for this manpower standard.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION

**STRUCTURAL REPAIR
(KC-135)**

DIRECT:

1. ON-EQUIPMENT MAINTENANCE:

1.1. PERFORMS AIRCRAFT STRUCTURAL REPAIR. Inspects, evaluates damage, and performs structural repair.

1.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

1.1.2. REPAIRS AIRCRAFT COCKPIT AND FUSELAGE COMPARTMENT COMPONENT.

1.1.3. REPAIRS AIRCRAFT LANDING GEAR AND COMPONENT.

1.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

1.1.5. REPAIRS ENGINE NACELLE COMPONENT.

1.1.6. REPAIRS AUXILIARY POWER PLANT COMPONENT.

1.1.7. REPAIRS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL COMPONENT.

1.1.8. REPAIRS ELECTRICAL POWER SUPPLY.

1.1.9. REPAIRS LIGHTING SYSTEM.

1.1.10. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC POWER SYSTEM.

1.1.11. REPAIRS FUEL SYSTEM COMPONENT.

1.1.12. REPAIRS OXYGEN SYSTEM COMPONENT.

1.1.13. REPAIRS MISCELLANEOUS UTILITY COMPONENT.

1.1.14. REPAIRS INSTRUMENT GENERAL.

1.1.15. REPAIRS INTERPHONE SYSTEM.

1.1.16. REPAIRS RADAR NAVIGATION EQUIPMENT COMPONENT.

1.1.17. REPAIRS EMERGENCY EQUIPMENT COMPONENT.

1.2. PERFORMS INSPECTION. Performs special and scheduled aircraft inspection.

1.2.1. PERFORMS LOOK PHASE OF SCHEDULED INSPECTION.

1.2.2. PERFORMS SPECIAL INSPECTION.

1.3. PERFORMS AIRCRAFT CORROSION CONTROL MAINTENANCE. Removes and chemically treats corrosion and applies protective coating and decal to aircraft.

1.3.1. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT AIRFRAME.**1.3.2. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT COCKPIT AND FUSELAGE COMPARTMENT.****1.3.3. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT LANDING GEAR.****1.3.4. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT FLIGHT CONTROL.****1.3.5. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT ENGINE.****1.3.6. PERFORMS CORROSION CONTROL MAINTENANCE ON AUXILIARY POWER PLANT COMPONENT.****1.3.7. PERFORMS CORROSION CONTROL MAINTENANCE ON AIR CONDITIONING PRESSURIZATION AND SURFACE ICE CONTROL.****1.3.8. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT LIGHTING SYSTEM COMPONENT.****1.3.9. PERFORMS CORROSION CONTROL MAINTENANCE ON HYDRAULIC PNEUMATIC POWER SUPPLY SYSTEM.****1.3.10. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT FUEL SYSTEM.****1.3.11. PERFORMS CORROSION CONTROL MAINTENANCE ON OXYGEN SYSTEM.****1.3.12. PERFORMS CORROSION CONTROL MAINTENANCE ON MISCELLANEOUS UTILITIES.****1.3.13. PERFORMS CORROSION CONTROL MAINTENANCE ON INSTRUMENTS GENERAL.****1.3.14. PERFORMS CORROSION CONTROL MAINTENANCE ON AUTO PILOT/FLIGHT CONTROL.****1.3.15. PERFORMS CORROSION CONTROL MAINTENANCE ON RADAR NAVIGATION SYSTEM.****1.3.16. PERFORMS CORROSION CONTROL MAINTENANCE ON EMERGENCY EQUIPMENT.****1.4. PERFORMS SPECIAL AIRCRAFT/AIRCRAFT COMPONENT CORROSION INSPECTION.**

Performs inspection of aircraft and aircraft component for identifying corrosive area.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. PERFORMS AIRCRAFT STRUCTURAL REPAIR AND FABRICATION. Inspects, bench checks, and evaluates off-equipment. Determines disposition.

2.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

- 2.1.2. REPAIRS AIRCRAFT COCKPIT AND FUSELAGE COMPARTMENT COMPONENT.
- 2.1.3. REPAIRS AIRCRAFT LANDING GEAR AND COMPONENT.
- 2.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.
- 2.1.5. REPAIRS ENGINE NACELLE COMPONENT.
- 2.1.6. REPAIRS AUXILIARY POWER PLANT COMPONENT.
- 2.1.7. REPAIRS AIRCRAFT ELECTRICAL POWER SUPPLY.
- 2.1.8. REPAIRS AIRCRAFT LIGHTING SYSTEM COMPONENT.
- 2.1.9. REPAIRS HYDRAULIC AND PNEUMATIC POWER SYSTEM COMPONENT.
- 2.1.10. REPAIRS AIRCRAFT FUEL SYSTEM COMPONENT.
- 2.1.11. REPAIRS AIRCRAFT OXYGEN SYSTEM COMPONENT.
- 2.1.12. REPAIRS MISCELLANEOUS UTILITY SYSTEM COMPONENT.
- 2.1.13. REPAIRS INSTRUMENT GENERAL.
- 2.1.14. REPAIRS INTERPHONE SYSTEM.
- 2.1.15. REPAIRS RADAR NAVIGATION EQUIPMENT COMPONENT.
- 2.1.16. REPAIRS EMERGENCY EQUIPMENT COMPONENT.
- 2.2. PERFORMS AIRCRAFT CORROSION CONTROL MAINTENANCE. Removes and chemically treats corrosion and applies protective coating to aircraft airframe component.
 - 2.2.1. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT AIRFRAME.
 - 2.2.2. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT COCKPIT AND FUSELAGE COMPARTMENT.
 - 2.2.3. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT LANDING GEAR COMPONENT.
 - 2.2.4. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT FLIGHT CONTROL.
 - 2.2.5. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT ENGINE/QUICK ENGINE CHANGE KIT.
 - 2.2.6. PERFORMS CORROSION CONTROL MAINTENANCE ON AUXILIARY POWER PLANT COMPONENT.
 - 2.2.7. PERFORMS CORROSION CONTROL MAINTENANCE ON AIR CONDITIONING PRESSURIZATION AND SURFACE ICE CONTROL.

2.2.8. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT LIGHTING SYSTEM COMPONENT.

2.2.9. PERFORMS CORROSION CONTROL MAINTENANCE ON HYDRAULIC PNEUMATIC POWER SUPPLY.

2.2.10. PERFORMS CORROSION CONTROL MAINTENANCE ON AIRCRAFT FUEL SYSTEM COMPONENT.

2.2.11. PERFORMS CORROSION CONTROL MAINTENANCE ON OXYGEN SYSTEM.

2.2.12. PERFORMS CORROSION CONTROL MAINTENANCE ON MISCELLANEOUS UTILITIES.

2.2.13. PERFORMS CORROSION CONTROL MAINTENANCE ON INSTRUMENT COMPONENT.

2.2.14. PERFORMS CORROSION CONTROL MAINTENANCE ON AUTO PILOT/FLIGHT CONTROL.

2.2.15. PERFORMS CORROSION CONTROL MAINTENANCE ON NAVIGATION EQUIPMENT.

2.2.16. PERFORMS CORROSION CONTROL MAINTENANCE ON EMERGENCY EQUIPMENT.

3. AEROSPACE GROUND EQUIPMENT/SHOP INDUSTRIAL EQUIPMENT. Repairs aerospace ground equipment/shop industrial equipment.

4. SHOP SUPPORT GENERAL. Performs shop support general code task.

5. PART CLEANING. Cleans aircraft part prior to repairing.

6. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

7. ASSISTANCE. Assists other production work center in the performance of direct labor maintenance.

8. MAINTENANCE AUTOMATED SYSTEM. Makes input to Maintenance Management Information Control System/Core Automated Maintenance System. Retrieves, analyzes, and reconciles data.

9. MAINTENANCE INSPECTION. Performs in-process inspection on maintenance. Inspects maintenance performed for clearing Red "X" condition and documents.

10. AIRCRAFT WASHRACK. Establishes and maintains adequate supply to ensure prompt aircraft and equipment washing. Ensures all aircraft washed have thorough wash and corrosion inspection.

11. CORROSION CONTROL ON SUPPORT EQUIPMENT. Performs corrosion control on support equipment which is beyond user capability to maintain.

12. SPECIAL PLANNING OR SCHEDULING. Performs planning or scheduling associated with preparation for unit training assembly, annual tour, mobility participation, battle damage program, or other special program.

13. CONTINGENCY/EXERCISE. Supports contingency/exercise.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of Standard Indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC				APPLICABILITY MAN-HOUR RANGE							
Structural Repair, FAC 23130C				569.97 - 949.95							
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aerospace Propulsion	454X0	CIV	1	1	1						
Aircraft Structural Maintenance	458X2	CIV	3	4	5						
TOTAL			4	5	6						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											