BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU

ANGMS 22100B
24 FEBRUARY 1995

FLIGHTLINE MAINTENANCE

(C-130)

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1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements*, 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. The AFI 21-series of Air Force (AF) and/or Air National Guard (ANG) directives contain US Air Force and Command policy and procedural guidance for the Flightline Maintenance work center. This manpower standard was developed using the functional review process under procedures outlined in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.

3. Applicability. This standard applies to all Air National Guard airlift units except the 123rd Airlift Wing; the 109th, 139th, and the 189th Airlift Groups; the 106th, 129th, and 210th Rescue Groups; the 193rd Special Operations Group; and the 176th Composite Group. This standard applies only to peacetime operations.

4. Standard Data:

a. Classification. Type II.
b. Approval Date. 9 July 1992.
c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
d. Standard Man-hour Equation. $Y = -142.5 + 318.6X$.
e. Workload Factor:
(1). Title. A C-130 Aircraft Authorized.
(2). Definition. The average monthly C-130 aircraft authorized.
(3). Source. USAF Program Document, Volume II, maintained by NGB/FM.

5. Application Instructions:

a. The valid man-hour range for this ANGMS is 1685.19 through 4839.64.
b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
c. Refer to the appropriate column in the standard manpower table at attachment 2 to determine the skill distribution.
d. Should the extrapolation limits be exceeded, see AFI 38-201, Determining Manpower Requirements, for guidance.

6. Statement of Conditions:

a. There were no general conditions (environmental, 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 work center.

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OFFICIAL

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

OPR: ANGRC/XPME (Ms. D. Reamy)

Certified by: NGB/CF (Col P. S. Kimmel)
Pages: 6/Distribution: F, X

WORK CENTER DESCRIPTION

Flightline Maintenance
(C-130)

DIRECT:

1. C-130 FLIGHTLINE MAINTENANCE:

1.1. PERFORMS PREFLIGHT INSPECTION. Performs aircraft preflight servicing, inspection, and maintenance. Reviews/updates AFTO Form 781, AFORM Aircrew Mission Flight Data Document.

1.2. PERFORMS THRU-FLIGHT INSPECTION. Performs aircraft servicing, inspection, and maintenance. Reviews/updates AFTO Form 781 series.

1.3. PERFORMS BASIC POST-FLIGHT (BPO) INSPECTION. Performs aircraft BPO inspection and maintenance.

1.4. PERFORMS SPECIAL INSPECTION.

2. PERIODIC/ISOCHRONAL INSPECTION. Accompanies aircraft through look phase and fix phase inspection and attends pre/post inspection meeting.

2.1. PERFORMS AIRCRAFT MAJOR INSPECTION.

2.2. PERFORMS AIRCRAFT FIRST MINOR INSPECTION.

2.3. PERFORMS AIRCRAFT SECOND MINOR INSPECTION.

2.4. PERFORMS AIRCRAFT THIRD MINOR INSPECTION.

2.5. PERFORMS AIRCRAFT HOME STATION CHECK INSPECTION.

2.6. PERFORMS AIRCRAFT REFURBISHMENT INSPECTION.

3. C-130 AIRCRAFT MAINTENANCE:

3.1. PERFORMS CORRECTIVE AND PREVENTATIVE MAINTENANCE:

3.1.1. PERFORMS AIRCRAFT AIRFRAME MAINTENANCE.

3.1.2. PERFORMS COCKPIT AND FUSELAGE COMPARTMENT MAINTENANCE. Refurbishes aircraft exterior, interior surface, and furnishing.

3.1.3. REMOVES/REPLACES WHEEL, TIRE, AND BRAKE.

3.1.4. TOWS AND POSITIONS AIRCRAFT.

3.1.5. PERFORMS FLIGHT CONTROL MAINTENANCE.

3.1.6. PERFORMS TURBO PROP POWER PLANT MAINTENANCE.

3.1.7. PERFORMS AUXILIARY POWER PLANT MAINTENANCE.

3.1.8. PERFORMS PROPELLER STATIC OPERATION, SERVICING, AND INSPECTION.

3.1.9. PERFORMS MAINTENANCE ON AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL SYSTEM.

3.1.10. PERFORMS MAINTENANCE ON ELECTRICAL POWER SUPPLY SYSTEM.

3.1.11. REMOVES/REPLACES LIGHTING SYSTEM COMPONENT.

3.1.12. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM.

3.1.13. PERFORMS FUEL SYSTEM MAINTENANCE.

3.1.14. PERFORMS MISCELLANEOUS UTILITY MAINTENANCE.

3.1.15. PERFORMS EMERGENCY EQUIPMENT MAINTENANCE.

3.1.16. PERFORMS PERSONNEL AND MISCELLANEOUS EQUIPMENT MAINTENANCE.

4. HELICOPTER FLIGHTLINE MAINTENANCE:

4.1. PERFORMS PREFLIGHT INSPECTION. Performs aircraft preflight servicing, inspection, and maintenance. Reviews/updates AFTO Form 781.

4.2. PERFORMS THRU-FLIGHT INSPECTION. Performs aircraft servicing, inspection, and maintenance. Reviews/updates AFTO Form 781 series.

4.3. PERFORMS BPO INSPECTION. Performs aircraft BPO inspection and maintenance.

4.4. PERFORMS AIRCRAFT PHASE INSPECTION.

4.5. PERFORMS SPECIAL INSPECTION.

5. HELICOPTER AIRCRAFT MAINTENANCE:

5.1. PERFORMS CORRECTIVE AND PREVENTATIVE MAINTENANCE:

5.1.1. PERFORMS AIRCRAFT AIRFRAME MAINTENANCE.

5.1.2. PERFORMS COCKPIT AND FUSELAGE COMPARTMENT MAINTENANCE. Refurbishes aircraft exterior, interior surface, and furnishing.

5.1.3. REMOVES/REPLACES WHEEL, TIRE, AND BRAKE.

5.1.4. PERFORMS FLIGHT CONTROL MAINTENANCE.

5.1.5. REPAIRS HELICOPTER ROTOR SYSTEM.

5.1.6. REPAIRS TURBO SHAFT POWER PLANT SYSTEM.

5.1.7. REPAIRS AUXILIARY POWER UNIT AND COMPONENT.

5.1.8. REPAIRS HELICOPTER MAIN DRIVE ROTOR SYSTEM.

5.1.9. REPAIRS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL HEATER SYSTEM.

5.1.10. REMOVES AND REPLACES BATTERY AND GENERATOR.

5.1.11. REMOVES AND REPLACES INTERIOR AND EXTERIOR LIGHTING.

5.1.12. REPAIRS AND ADJUSTS PRIMARY, AUXILIARY, AND UTILITY HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM.

5.1.13. PERFORMS FUEL SYSTEM MAINTENANCE.

5.1.14. PERFORMS MISCELLANEOUS UTILITY MAINTENANCE.

5.1.15. REMOVES AND REPLACES BASIC INSTRUMENTATION.

6. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Accomplishes directed TCTO and completes documentation.

7. ASSISTANCE. Provides assistance to other Maintenance functions in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

8. GROUND HANDLING, SERVICING, AND RELATED TASK. Tows or positions, parks aircraft, and performs general maintenance not included in categories 1, 2, 3, 4, and 5.

9. AIRCRAFT CLEANING. Performs aircraft cleaning to include washing, decontamination, frost and ice removal, and after wash lubrication.

10. AEROSPACE GROUND EQUIPMENT/SHOP INDUSTRIAL EQUIPMENT REPAIR.

11. DEBRIEFING. Attends aircrew debriefing.

12. UNIT TRAINING ASSEMBLY (UTA), MOBILITY REQUIREMENT, AND BATTLE DAMAGE PROGRAM. Performs planning and scheduling tasks associated with preparation for UTA workload, mobility requirement, and Battle Damage Program.

13. AIRCRAFT DOCUMENTATION, PREPARATION AND MAINTENANCE. Prepares and maintains aircraft documentation.

14. PERFORMS FLIGHTLINE MAINTENANCE EXPEDITER WORKLOAD. Controls/monitors maintenance in progress and coordinates requirement status with Job Control.

15. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

16. COMPOSITE TOOL KIT (CTK) MAINTENANCE. Performs maintenance on CTK to include scheduling of Precision Measuring Equipment for calibration. Ensures availability and serviceability of part/kit.

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
Flightline Maintenance 21000B	1685.19 - 4839.64

AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft	452XX	Civ	3	3	3	3	3				
Airlift Acft Maint	457X2A	Civ	26	27	28	29	30				
TOTAL			29	30	31	32	33				

AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											

AF FORM 1113, Jun 91 (COMPUTER GENERATED). PREVIOUS EDITION IS OBSOLETE.