BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU

ANGMS 22100C
23 NOVEMBER 1994

FLIGHT LINE MAINTENANCE
(KC-135)

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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 Flight Line Maintenance 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 Flight Line Maintenance 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. $Y = 24.01 + 14.64X$.
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 2787.02 through 4645.03.
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.

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

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

DONALD W. SHEPPERD
Major General, USAF
Director, Air National Guard

OFFICIAL

DEBORAH GILMORE
Acting Chief
Administrative Services

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

WORK CENTER DESCRIPTION

Flight Line Maintenance
(KC-135)

DIRECT:

1. FLIGHT LINE MAINTENANCE:

1.1. PERFORMS PREFLIGHT INSPECTION. Performs aircraft preflight, servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.2. PERFORMS THRU-FLIGHT INSPECTION (AFTER FLIGHT). Performs aircraft servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.3. PERFORMS THRU-FLIGHT INSPECTION (BEFORE FLIGHT). Performs aircraft servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.4. PERFORMS QUICK TURN INSPECTION. Performs aircraft servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.5. PERFORMS BASIC 50-HOUR POSTFLIGHT (BPO) INSPECTION. Performs aircraft servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.6. PERFORMS ALERT POSTFLIGHT INSPECTION. Performs aircraft servicing, inspection, and maintenance. Reviews/updates automated/manual record or form.

1.7. PERFORMS SECTION 5A (DAILY WALKAROUND). Performs aircraft walkaround inspection and maintenance. Reviews/updates automated/manual record or form.

1.8. PERFORMS SECTION 5B (AFTER EXERCISE). Performs aircraft walkaround inspection and maintenance. Reviews/updates automated/manual record or form.

1.9. PERFORMS DAILY WALKAROUND INSPECTION ON ALERT AIRCRAFT. Performs aircraft walkaround inspection and maintenance. Reviews/updates automated/manual record or form.

1.10. PERFORMS COMBINED PREFLIGHT/BPO INSPECTION. Performs aircraft combined preflight/BPO inspection, servicing, and maintenance. Reviews/updates automated/manual record or form.

1.11. PERFORMS MAINTENANCE INSPECTION. Performs in-process inspection on maintenance. Inspects maintenance performed for clearing red "X" condition and documents.

1.12. PERFORMS ONETIME INSPECTION (OTI). Performs and documents higher headquarters or Deputy Commander for Maintenance (DCM) directed OTI.

1.13. EXTRACTS OIL ANALYSIS PROGRAM SAMPLE.

2. PERIODIC INSPECTION:

2.1. PERFORMS AIRCRAFT FIRST PERIODIC INSPECTION. Accompanies aircraft through look phase, fix phase inspection, and post dock. Attends pre/post inspection meeting.

2.2. PERFORMS AIRCRAFT SECOND PERIODIC INSPECTION. Accompanies aircraft through look phase, fix phase inspection, and post dock. Attends pre/post inspection meeting.

2.3. PERFORMS AIRCRAFT THIRD PERIODIC INSPECTION. Accompanies aircraft through look phase, fix phase inspection, and post dock. Attends pre/post inspection meeting.

2.4. PERFORMS AIRCRAFT 150-DAY LUBRICATION.

3. ACCEPTANCE INSPECTION. Performs acceptance inspection.

4. GROUND HANDLING, SERVICING, AND RELATED TASK. Tows, positions, and parks aircraft; runs engine; and performs general maintenance. Tows, positions, and parks related equipment necessary for general maintenance.

5. CORRECTIVE AND PREVENTATIVE MAINTENANCE:

5.1. PERFORMS AIRCRAFT CLEANING. Performs aircraft cleaning (includes washing, decontamination, frost and ice removal, and after wash lubrication). Identifies corrosion and documents.

5.2. PERFORMS AIRCRAFT AIRFRAME MAINTENANCE. Removes, replaces, or adjusts airframe component.

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

5.4. PERFORMS AIRCRAFT LANDING GEAR MAINTENANCE. Performs landing gear maintenance to include removal, replacement, or adjustment of landing gear component. Services component and performs operational check.

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

5.6. PERFORMS FLIGHT CONTROL MAINTENANCE. Performs flight control maintenance removal and replacement of flight control surface, component rigging, or adjustment of control or cable. Performs operational check.

5.7. PERFORMS TURBO FAN POWER PLANT MAINTENANCE.

5.8. PERFORMS AUXILIARY POWER PLANT MAINTENANCE.

5.9. PERFORMS MAINTENANCE ON AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL SYSTEM. Removes and replaces system component. Performs operational check.

5.10. PERFORMS MAINTENANCE ON ELECTRICAL POWER SUPPLY SYSTEM. Removes and replaces component. Performs operational check.

5.11. REMOVES/REPLACES LIGHTING SYSTEM COMPONENT. Performs operational check.

5.12. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC POWER SYSTEM. Removes, replaces, and services component. Performs operational check.

5.13. PERFORMS FUEL SYSTEM MAINTENANCE. Removes, replaces, and services component. Performs operational check.

5.14. REMOVES AND REPLACES OXYGEN SYSTEM COMPONENT.

5.15. REMOVES AND REPLACES NAVIGATION INSTRUMENT COMPONENT.

5.16. PERFORMS MISCELLANEOUS UTILITY SYSTEM MAINTENANCE. Removes and replaces component. Performs operational check.

5.17. PERFORMS EMERGENCY EQUIPMENT MAINTENANCE.

5.18. INSTALLS/REMOVES STARTER CARTRIDGE.

6. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs inspection/maintenance required on 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. DEBRIEFING. Conducts aircrew debriefing and completes appropriate document.

9. AIRCRAFT DOCUMENTATION. Transcribes document, monitors AFTO 781 series form during maintenance and preparation for flight, reviews and inspects form for input to jacket file, completes aircraft document review, and verifies part requirement.

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

11. CONTINGENCY/EXERCISE. Supports contingency or exercise.

12. MODIFICATION PROGRAM. Accomplishes approved modification.

13. CONFIGURATION CHANGE. Performs configuration change prior to and after periodic depot maintenance and when directed by mission change.

14. TECHNICAL ORDER PUBLICATION FILE. Maintains publication library to accompany the aircraft.

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								
Flight Line Maintenance/ FAC 22100C			2787.02 - 4645.03								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Maintenance	452XX	CIV	2	2	2	2	2	2	2	2	2
Strat Acft Maint	457X0	CIV	17	18	19	20	21	22	23	24	25
TOTAL			19	20	21	22	23	24	25	26	27
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Maintenance	452XX	CIV	2	2	2	2					
Strat Acft Maint	457X0	CIV	26	27	28	29					
TOTAL			28	29	30	31					

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