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 Metals Technology 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 Metals Technology 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. $Y = 6.245 + .6518X$.
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 127.97 through 213.28.
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.

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

OFFICIAL

DEBORAH GILMORE
Chief
Administrative Services

2 Attachments
1. Work Center Descriptioin
2, Standard Manpower Table

WORK CENTER DESCRIPTION

Metals Technology
(KC-135)

DIRECT:

1. ON-EQUIPMENT:

1.1. PERFORMS MACHINE SHOP OPERATION AND REPAIR. Inspects, troubleshoots, and evaluates damage on aircraft and related support equipment.

1.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

1.1.2. REPAIRS AIRCRAFT COCKPIT AND FUSELAGE COMPARTMENT COMPONENT.

1.1.3. REPAIRS AIRCRAFT LANDING GEAR COMPONENT.

1.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

1.1.5. REPAIRS AIRCRAFT TURBO FAN POWER PLANT COMPONENT.

1.1.6. REPAIRS AIRCRAFT AUXILIARY POWER PLANT COMPONENT.

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

1.1.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

1.1.9. REPAIRS AIRCRAFT LIGHTING SYSTEM COMPONENT.

1.1.10. REPAIRS AIRCRAFT HYDRAULIC PNEUMATIC POWER SUPPLY COMPONENT.

1.1.11. REPAIRS AIRCRAFT FUEL SYSTEM COMPONENT.

1.1.12. REPAIRS AIRCRAFT OXYGEN SYSTEM COMPONENT.

1.1.13. REPAIRS AIRCRAFT MISCELLANEOUS UTILITIES AND COMPONENT.

1.1.14. REPAIRS AIRCRAFT INSTRUMENT/AUTOPILOT COMPONENT.

1.1.15. REPAIRS AIRCRAFT RADAR/NAVIGATION SYSTEM COMPONENT.

1.2. PERFORMS INSPECTION:

1.2.1. PERFORMS PHASE/HOURLY INSPECTION.

1.2.2. PERFORMS SPECIAL INSPECTION.

2. OFF-EQUIPMENT:

2.1. PERFORMS MACHINE SHOP REPAIR/FABRICATION. Inspects, bench checks, and evaluates off-equipment component. Repairs and 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 COMPONENT.

2.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

2.1.5. REPAIRS AIRCRAFT TURBO FAN POWER PLANT COMPONENT.

2.1.6. REPAIRS AIRCRAFT AUXILIARY POWER PLANT COMPONENT.

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

2.1.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

2.1.9. REPAIRS AIRCRAFT HYDRAULIC PNEUMATIC POWER SUPPLY COMPONENT.

2.1.10. REPAIRS AIRCRAFT FUEL SYSTEM COMPONENT.

2.1.11. REPAIRS AIRCRAFT MISCELLANEOUS UTILITIES COMPONENT.

2.1.12. REPAIRS AIRCRAFT INSTRUMENT/AUTOPILOT COMPONENT.

2.1.13. REPAIRS AIRCRAFT COMMUNICATION SYSTEM COMPONENT.

2.1.14. REPAIRS AIRCRAFT RADIO NAVIGATION SYSTEM COMPONENT.

2.1.15. REPAIRS AIRCRAFT RADAR NAVIGATION SYSTEM COMPONENT.

2.2. PERFORMS WELDING OPERATION. Inspects, bench checks, and evaluates equipment component. Repairs and determines disposition.

2.2.1. WELDS AIRCRAFT AIRFRAME COMPONENT.

2.2.2. WELDS AIRCRAFT FUSELAGE COMPARTMENT.

2.2.3. WELDS AIRCRAFT LANDING GEAR COMPONENT.

2.2.4. WELDS AIRCRAFT FLIGHT CONTROL COMPONENT.

2.2.5. WELDS AIRCRAFT POWER PLANT COMPONENT.

2.2.6. WELDS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL COMPONENT.

2.2.7. WELDS AIRCRAFT AUXILIARY POWER PLANT.

2.2.8. WELDS AIRCRAFT LOOSE EQUIPMENT.

2.2.9. WELDS AIRCRAFT FUEL SYSTEM.

3. SHOP SUPPORT GENERAL. Performs shop support general code tasking.

4. AEROSPACE GROUND EQUIPMENT (AGE)/INDUSTRIAL SHOP EQUIPMENT REPAIR. Repairs AGE/industrial shop equipment as necessary.

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

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

7. 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.

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 Metals Technology, FAC 23110C			APPLICABILITY MAN-HOUR RANGE 127.97 - 213.28								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Metals Technology	458X0	CIV	1	2							
TOTAL			1	2							
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											

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