PRODUCTION ANALYSIS (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 Production Analysis work center. This ANGMS was developed in accordance with the functional review procedures depicted in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processess*, formerly AFR 25-5.

3. Applicability. This standard applies to all ANG KC-135 units with an established Production Analysis 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. $Y = 0.6641 + 0.7950X$.
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 150.47 through 252.00.
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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OFFICIAL

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

WORK CENTER DESCRIPTION

Production Analysis
(KC-135)

DIRECT:

1. PRODUCTION ANALYSIS:

1.1. INFORMS DEPUTY COMMANDER FOR MAINTENANCE (DCM) OR MAINTENANCE MANAGER. Acts as primary management information source for DCM, DCM staff agency, or maintenance manager.

1.1.1. COLLECTS AND MAINTAINS DATA. Collects and maintains data pertinent to the maintenance operation.

1.1.2. ANALYZES DATA. Analyzes data for significant trend. Isolates and identifies area for further study or investigation. Recommends and informs management personnel in regards to procedure, equipment, manpower use, and system reliability. Refers problem beyond the scope of Production Analysis to other staff agency.

1.1.3. ASSIMILATES DATA. Extracts data from document, form, computerized report, or other source.

1.2. PREPARES INFORMATION DATA. Prepares data for the DCM, DCM staff agency, or maintenance manager.

1.2.1. PREPARES REPORT. Organizes, drafts, prepares in final format, and proofreads report.

1.2.2. PREPARES STUDY. Researches, organizes, drafts and prepares required graph, chart, table, or study finding, and proofreads typed copy.

1.2.3. PREPARES SUMMARY. Extracts, organizes, analyzes, drafts and prepares summary, and proofreads typed copy.

1.2.4. PREPARES PRESENTATION. Researches, organizes, drafts and prepares presentation, and proofreads typed copy.

1.2.5. PREPARES BRIEFING. Prepares chart/slide.

1.3. ASSISTS MAINTENANCE ACTIVITY:

1.3.1. EXTRACTS INFORMATION. Obtains request from other agency, and schedules and prepares Air Force On-Line Data System/Query Language Processor retrieval.

1.3.2. INTERPRETS DATA. Assists maintenance activity in the proper application and interpretation of extracted data.

1.4. PROVIDES QUALITY CONTROL DATA. Provides Quality Control with necessary statistical and trend information for the Quality Control Program.

1.5. DEVELOPS ATTRITION FACTOR. Coordinates with Plans and Scheduling to develop attrition factor. Investigates and computes factor.

1.6. COMPUTES CAPABILITY. Collects and extracts data. Coordinates and forecasts work center and airframe capability IAW AFI 21-103, *Aircraft, Missile, and Equipment Accountability*, formerly AFR 66-12.

1.7. MONITORS MAINTENANCE MANNING. Advises DCM and other agency when data examination indicates possible manning imbalance. Provides data to support manning study.

1.8. MONITORS BASE REPAIR PROGRAM. Provides manager or work center supervisor with data needed to manage and determine work center repair capability under the base optimum repair program.

1.9. EVALUATES WORK HOUR EXPENDITURE. Provides trend, comparison, and summarized information to the maintenance supervisor for planning future maintenance action.

1.10. EVALUATES AIRCRAFT SYSTEM PERFORMANCE. Computes system capability, reliability, and mean time between failure rate. Summarizes data for monitoring system performance.

1.11. EVALUATES MAINTENANCE PERFORMANCE. Compares monthly and weekly plan and workload estimate with actual performance, and analyzes difference.

1.12. MONITORS MATERIAL DEFICIENCY. Analyzes high work-hour consumer, high fail item, or other questionable trend to identify material deficiency. Refers deficiency to the appropriate staff agency.

1.13. MONITORS EQUIPMENT STATUS REPORT. Monitors report for undesirable mission limiting status trend, and identifies undesirable trend for further investigation and analysis.

1.14. INVESTIGATES SIGNIFICANT TREND. Investigates significant trend, and assists the appropriate maintenance activity in developing a corrective solution.

2. MAINTENANCE MANAGEMENT INFORMATION COMPUTER SYSTEM (MMICS)/CORE AUTOMATED MAINTENANCE SYSTEM (CAMS).

2.1. ADVISES THE DCM AND DCM STAFF. Advises staff concerning MMICS/CAMS.

2.2. COORDINATES WITH OTHER ACTIVITY. Coordinates with the functional user, the data base manager, and data automation in solving MMICS/CAMS related problem.

2.2.1. MONITORS MMICS/CAMS RCS REPORTING REQUIREMENT. Coordinates with host unit to ensure MMICS/CAMS RCS report is forwarded.

2.2.2. INFORMS FUNCTIONAL USER. Informs functional user of new release, special program, change to existing program, and system advisory notice related to subsystem.

2.3. PREPARES LOCAL PROCEDURE:

2.3.1. PREPARES BACKGROUND PROGRAM. Drafts, prepares, and maintains up-to-date procedure for the coordination and control of requirement for background program.

2.3.2. PREPARES CONTINGENCY PLAN. Drafts, prepares, and maintains up-to-date procedure for off-site data processing in the event of base computer failure.

2.4. MONITORS MMICS/CAMS EQUIPMENT AND COMPUTER DATA SECURITY. Establishes procedure to prevent the unauthorized use of MMICS/CAMS equipment and computer data.

2.5. PERFORMS AS EQUIPMENT CUSTODIAN. Acts as equipment custodian for MMICS/CAMS remote device, printer, and associated hardware.

2.5.1. ESTABLISHES REQUIREMENT. Submits requirement for new automatic data processing equipment and communication requirement for connectivity.

2.5.2. MONITORS AND REPORTS HARDWARE FAILURE. Monitors failure, ascertains cause, and renders assistance.

2.6. ENSURES DATA IS AVAILABLE. Prepares, produces report created by MMICS/CAMS, and distributes as appropriate.

2.7. MAINTAINS DATA BASE. Maintains an error free data base.

2.8. ASSISTS USER. Assists user with problem concerning reject code.

3. MICROCOMPUTER. Manages and monitors microcomputer and associated software.

3.1. ASSISTS IN PROCURING HARDWARE/SOFTWARE. Assists maintenance activity in determining what hardware and software are needed, and provides guidance in procurement procedure.

3.2. RECEIVES AND CONTROLS DISTRIBUTION OF HARDWARE/SOFTWARE. Receives new hardware/software, submits warranty and/or registration documentation to manufacturer, and distributes hardware/software to the appropriate maintenance activity.

3.3. ASSISTS IN INSTALLATION. Assists maintenance activity in installing hardware and software.

3.4. PROVIDES TECHNICAL GUIDANCE. Provides assistance to maintenance activity on software/hardware problematic area.

4. 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.

5. STAFF ASSISTANCE. Performs staff assistance to collocated/noncollocated unit.

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 Production Analysis/FAC 2102OC			APPLICABILITY MAN-HOUR RANGE 150.47 - 252.00								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Maintenance Data Systems Analysis	391XO	CIV	1	2							
TOTAL			1	2							
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											

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