

12 February 1993

**FUEL SYSTEMS**

**(C-141)**

**1. Objective.** As prescribed in AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement 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 contains ANG policy and procedural guidance for the Fuel Systems work center. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, 16 May 88. This ANGMS is a result of a functional review.

**3. Applicability.** This standard applies to ANG C-141 Air Mobility Command gained flying units. This standard applies only to peacetime operations.

**4. Standard Data:**

**a. Classification.** Type III.

**b. Approval Date.** 4 Jan 93.

**c. Man-Hour Data Source.** Operational Audit (historical record and technical estimate techniques).

**d. Standard Man-Hour Equation.**  $Y = 4.684 + 1.299X_1 + 6.446X_2$ .

**e. Workload Factor:**

**(1) Title:**

**(a) X<sub>1</sub>.** A Programmed Flying Hour.

**(b) X<sub>2</sub>.** A C-141 Aircraft Authorized.

**(2) Definition:**

**(a) X<sub>1</sub>.** The average monthly programmed flying hours.

**(b) X<sub>2</sub>.** The average monthly C-141 aircraft authorized.

**(3) Source of Count:**

**(a) X<sub>1</sub>.** USAF Program Document (PD), Volume II, maintained by NGB/FM.

**(b) X<sub>2</sub>.** USAF Program Document (PD), Volume II, maintained by NGB/FM.

**5. Application Instructions:**

**a.** The valid man-hour range for this ANGMS is 374.90 through 624.83. Should the extrapolation limits be exceeded, see AFR 26-1, Volume III, paragraph 1-20 for guidance.

**b.** The AF Form 1113, Standard Manpower Table, is an aggregate of total manpower by specialty title and Air Force Specialty Code (AFSC). The applicable instructions are as follows:

**(1)** Determine the values for the two workload factors (WLFs) identified in paragraph 4e.

**(2)** Substitute the appropriate WLF value into the man-hour equation for X<sub>1</sub> and X<sub>2</sub>.

**(3)** Divide the total man-hours (Y) by the current civilian man-hour availability factor to determine total requirements. Note: Determine whole manpower requirements, apply ANG standard application procedures using the Fractional Manpower Range Table.

**(4)** Find the column in which the number of required authorizations fall; read up to determine manpower by AFSC.

**c.** Fractional manpower requirements resulting from application of this standard will not be aggregated.

**6. Statement of Conditions.** This work center's normal hours of operation are 8 hours a day, 5 days a week. There are no other standard of living constraints which affect the daily operation of this work center.

**PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE**

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

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**WORK CENTER DESCRIPTION****Fuel Systems****(C-141)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

**1.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT.** Inspects, troubleshoots, and repairs fuel system on-equipment.

**1.1.1. MAINTAINS TANK SYSTEM.**

**1.1.2. MAINTAINS FUEL DISTRIBUTION SYSTEM.**

**1.1.3. MAINTAINS SINGLE POINT REFUELING SYSTEM.**

**1.1.4. MAINTAINS FUEL CONTROL COMPONENT.**

**1.1.5. MAINTAINS VENT SYSTEM.**

**1.1.6. MAINTAINS FUEL JETTISON SYSTEM.**

**1.1.7. MAINTAINS FUEL INSTRUMENT SYSTEM.**

**1.1.8. MAINTAINS AERIAL REFUELING SYSTEM.**

**1.2. PERFORMS INSPECTION.** Performs special, phase, and hourly aircraft inspection.

**1.2.1. PERFORMS SPECIAL INSPECTION.**

**1.2.2. PERFORMS ISOCHRONAL/HOME STATION CHECK INSPECTION.**

**2. OFF-EQUIPMENT MAINTENANCE:**

**2.1. MAINTAINS AIRCRAFT FUEL SYSTEM AND COMPONENT.** Inspects, troubleshoots, and repairs off-equipment.

**2.1.1. MAINTAINS FUEL DISTRIBUTION SYSTEM.**

**2.1.2. MAINTAINS SINGLE POINT REFUELING SYSTEM.**

**2.1.3. MAINTAINS FUEL JETTISON SYSTEM.**

**2.1.4. MAINTAINS AERIAL REFUELING SYSTEM.**

**3. NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE).** Maintains non-powered aerospace ground equipment (AGE).

**4. SHOP SUPPORT GENERAL CODE.** Performs shop support general code.

**5. DIRECT LABOR MAINTENANCE.** Assists in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

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

**7. UNIT TRAINING ASSEMBLY (UTA) AND MOBILITY REQUIREMENT.** Performs planning/scheduling task associated with preparation for UTA weekend and mobility requirement.

**8. GROUND HANDLING SERVICING AND RELATED TASKS.** Performs ground handling servicing and related tasks.

**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					
Fuels Systems/23320A					374.90 - 624.83					
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
Acft Fuels System	454X3	CIV	3	4						
TOTAL			3	4						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
TOTAL										