BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU

ANGMS 22110D
24 OCTOBER 1994

FLIGHT LINE MAINTENANCE

(F-16)

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1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements,* 18 March 1991, this Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the work center description for varying levels of workload.

2. Authority. Air National Guard Regulation 66-14, *Maintenance Management,* 13 July 1988, contains policy and procedural guidance for the Flight Line Maintenance work center. This ANGMS has been developed in accordance with procedures outlined in AFPAM 38-208V1, Air Force Management Engineering Program (MEP) Processes, (formerly AFR 25-5), and is the result of a functional review.

3. Applicability. Applies to ANG F-16 Fighter Wings, Groups, and the 114th Fighter Squadron. Excludes the 162nd Fighter Group and the 184th Fighter Group. This standard applies to peacetime operations only.

4. Standard Data:

a. Classification. Type II.

b. Approval Date. 1 August 1992.

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

d. Standard Man-hour Equation. $Y = 476.2 + 179.5X$.

e. Workload Factors:

(1) Title. F-16 Aircraft Authorized.

(2) Definition. The average monthly F-16 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 4135.35 through 8725.85.

b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.

c. Determine the whole manpower requirements for this work center and refer to the appropriate column in the standard manpower table at attachment 2 to determine the required specialities.

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.

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

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

WORK CENTER DESCRIPTION

Flight Line Maintenance

(F-16)

DIRECT:

1. FLIGHT LINE INSPECTION:

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

1.1.1. PERFORMS PREFLIGHT INSPECTION.

1.1.2. PERFORMS END OF RUNWAY INSPECTION.

1.1.3. PERFORMS DAILY WALK-AROUND INSPECTION.

1.1.4. PERFORMS QUICK TURNAROUND INSPECTION.

1.1.5. PERFORMS LAUNCH AND RECOVERY INSPECTION.

1.1.6. PERFORMS THRU FLIGHT INSPECTION.

1.1.7. PERFORMS POSTFLIGHT INSPECTION.

1.1.8. PERFORMS COMBINED PREFLIGHT/POSTLIGHT INSPECTION.

1.2. ACCOMPLISHES PHASE INSPECTION. Accompanies aircraft through look phase, fix phase, and attends prephase/postphase inspection meeting.

1.3. PERFORMS SPECIAL INSPECTION. Performs special inspection, servicing, and maintenance.

2. GENERAL SUPPORT MAINTENANCE:

2.1. PERFORMS GROUND HANDLING AND SERVICING. Performs ground handling, servicing, and related task. Tows, positions, parks aircraft, and performs general maintenance not included in category one.

2.1.1. TOWS AND POSITIONS AIRCRAFT.

2.1.2. PERFORMS PARKING AND PRETAXI.

2.1.3. PERFORMS ENGINE RUN-UP.

2.1.4. PERFORMS AIRCRAFT MOORING.

2.1.5. FUELS AND DE-FUELS AIRCRAFT.

2.1.6. PERFORMS FUEL TANK PURGING.

2.1.7. PERFORMS OIL SERVICING.

2.1.8. SERVICES/PURGES OXYGEN SYSTEM.

2.1.9. SERVICES AIR PRESSURIZED SYSTEM.

2.1.10. REMOVES AND INSTALLS HALON BOTTLE.

2.1.11. SERVICES HYDRAULIC SYSTEM.

2.1.12. LOADS AND UNLOADS BALLAST PLATE.

2.1.13. SERVICES MISCELLANEOUS SYSTEM.

2.1.14. PERFORMS LUBRICATION.

2.1.15. PERFORMS AGE POSITIONING.

2.1.16. PERFORMS 780 EQUIPMENT PICK-UP AND DELIVERY.

2.1.17. PERFORMS POD, PYLON, AND EXTERNAL TANK HANDLING.

2.1.18. PERFORMS AIRCRAFT JACKING FOR MAINTENANCE.

2.2. PERFORMS AIRCRAFT CLEANING. Prepares for and cleans aircraft to include after wash lubrication.

3. CORRECTIVE AND PREVENTATIVE MAINTENANCE:

3.1. PERFORMS CORRECTIVE AND PREVENTATIVE MAINTENANCE. Performs corrective and preventative maintenance to ensure aircraft is mission capable.

3.1.1. PERFORMS AIRCRAFT AIRFRAME MAINTENANCE.

3.1.2. PERFORMS AIRCREW STATION SYSTEM MAINTENANCE.

3.1.3. MAINTAINS LANDING GEAR SYSTEM.

3.1.4. MAINTAINS FLIGHT CONTROL SYSTEM.

3.1.5. PERFORMS TURBOFAN POWER PLANT MAINTENANCE.

3.1.6. MAINTAINS AUXILIARY POWER PLANT/JET FUEL STARTER.

3.1.7. PERFORMS MAINTENANCE ON ENVIRONMENTAL CONTROL SYSTEM COMPONENT.

3.1.8. REMOVES AND REPLACES ELECTRICAL POWER SUPPLY COMPONENT.

3.1.9. REMOVES AND REPLACES LIGHTING SYSTEM COMPONENT.

3.1.10. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC SYSTEM

3.1.11. PERFORMS MAINTENANCE ON FUEL SYSTEM.

3.1.12. PERFORMS MAINTENANCE ON OXYGEN SYSTEM.

3.1.13. PERFORMS MISCELLANEOUS UTILITY MAINTENANCE.

3.1.14. REMOVES AND REPLACES CLOCK.

3.1.15. REMOVES AND REPLACES STATIC DISCHARGERS.

3.2. MAINTAINS GUN PURGE HYDRAULIC COMPONENT. Inspects, trouble-shoots, repairs, adjusts, removes, replaces, modifies, and performs functional check on-equipment.

3.3. PERFORMS TIME-COMPLIANCE TECHNICAL ORDER (TCTO). Accomplishes directed TCTO and completes documentation.

3.4. DOWNLOADS ENGINE DATA.

4. AIRCREW DEBRIEFING. Manages and performs aircrew debriefing.

5. AIRCRAFT DOCUMENTATION MAINTENANCE. Prepares and maintains aircraft documentation.

6. CRASH RECOVERY RESPONSE. Performs task required to support unit crash recovery program.

7. TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts data and change to technical order file. Maintains file for serviceability.

8. UNIT TRAINING ASSEMBLY (UTA) PREPARATION. Performs planning/scheduling task associated with preparation for UTA.

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, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC Flight Line Maintenance/22110D			APPLICABILITY MAN-HOUR RANGE 4135.35 - 8725.85								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Tac Acft Maint	452X0 452X4B	Civ Civ	4 24	4 25	4 26	4 27	4 28	4 29	4 30	4 31	4 32
TOTAL			28	29	30	31	32	33	34	35	36
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Tac Afct Maint	452X0 452X0B	Civ Civ	5 32	5 33	5 34	5 35	5 36	5 37	5 38	5 39	5 40
TOTAL			37	38	39	40	41	42	43	44	45

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STANDARD MANPOWER TABLE											
WORK CENTER/FAC Flight Line Maintenance/22110D			APPLICABILITY MAN-HOUR RANGE 4135.35 - 8725.85								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Tac Acft Maint	452X0 452X4B	Civ Civ	5 41	5 42	5 43	5 44	5 45	5 45	5 46	5 47	5 48
TOTAL			46	47	48	49	50	51	52	53	54
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft Tac Afct Maint	452X0 452X0B	Civ Civ	6 49	6 50	6 51	6 52					
TOTAL			55	56	57	58					

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