

SECTION VII

CREW DUTIES

7-1. SCOPE.

7-2. This section contains a description of the responsibilities of each missile combat crew member in operating and maintaining the missile complex. The duties of each crew member include a discussion of their primary and secondary functions.

7-3. GENERAL.

7-4. The Titan I missile combat crew is comprised of a missile combat crew commander (missile launch officer or guidance electronics officer, depending upon seniority), missile launch officer (MLO), guidance electronics officer (GEO), ballistic missile analyst technician (BMAT), missile maintenance technician (MMT), and two electrical power production technicians (EPPT). The six crew members of the missile combat crew have certain specific duties that must be performed in maintaining and operating the launch complex. A crew member may be called on to perform other than his normal duties if an emergency arises during standby, countdown or abort; or if a malfunction occurs during a tactical countdown.

7-5. MISSILE COMBAT CREW COMMANDER (MCCC).

7-6. The MCCC is the senior officer of the missile combat crew. He is responsible for conducting the crew coordination, crew changeover, and when necessary, safety briefings. He will make EWO assignments and insure daily performance of the weapon system verification checklist. The MCCC controls access to the launch complex, launch emplacements, and the upper level of the launch control center. He will assume the responsibilities of the complex commander during his absence. He will direct all combat crew activities, verify complex configuration, and insure adequacy, currency and adherence to operational technical orders and checklists. He is responsible for insuring immediate EWO reaction capability, adherence to the two man policy, and compliance with JCS weapon system safety rules. The MCCC is also responsible for insuring timely completion of crew training requirements and for maintaining a high degree of crew professionalism.

7-7. MISSILE LAUNCH OFFICER (MLO).

7-8. The MLO is responsible for copying, decoding and authenticating fast reaction messages and determining if a launch exercise countdown is authorized to proceed. The missile launch officer will always assume the responsibilities of the MCCC during performance of weapon system verification, launch countdowns and exercises. In addition the MLO is responsible for the following tasks:

- a. Manning the launch control console during countdown.
- b. Reviewing logs, charts, status boards, and other information applicable to the status of the complex.
- c. Reviewing applicable AFTO 200 series forms.
- d. Coordinating all required maintenance actions/functions with the maintenance officer/supervisor.

- e. Reviewing operational checklists/technical data applicable to his crew station for currency and completeness.
- f. Performing and coordinating his portion of the positive control changeover with the GEO.
- g. Coordinating with command post on effective changeover and applicable count-down times.
- h. Announcing his assumption of command over the public address system after crew changeover.
- i. Adhering to JCS safety rules.
- j. Participating in all crew briefings.

7-9. GUIDANCE ELECTRONICS OFFICER (GEO).

7-10. The GEO is responsible for copying, decoding and authenticating fast reaction messages. He will insure the guidance countdown is started at the proper time and the correct trajectory kits are inserted for launch/exercise. In addition the GEO is responsible for the following tasks:

- a. Manning the missile guidance console during countdowns and readiness monitoring.
- b. Performing weapons system verification checklist and insures the guidance system is maintained in a readiness condition.
- c. Reviewing operational checklists/technical data applicable to his crew station for currency and completeness.
- d. Performing and coordinating his portion of the positive control changeover with the MLO.
- e. Manning the launch control console in absence of the MLO.
- f. Performing malfunction analysis as required.
- g. Reviewing applicable AFTO 200 series forms and coordinates with maintenance for necessary corrective action.
- h. Jointly responsible with the MLO for adhering to JCS safety rules.
- i. Participating in all crew briefings.

7-11. BALLISTIC MISSILE ANALYST TECHNICIAN (BMAT).

7-12. The BMAT monitors the launch complex facilities console during alert status monitoring and launch countdown. The BMAT is also responsible for the following tasks:

- a. Visual monitoring of countdown sequence and performing malfunction analysis on the missile systems and all associated AGE and AOE.

- b. Operating and assisting in maintaining AOE during alert status monitoring.
- c. Performing weapon system status verification.
- d. Coordinating checklist functions.
- e. Reviewing AFTO series 200 Forms and coordinating with maintenance for necessary corrective action.
- f. Copying, decoding and authenticating fast reaction messages.
- g. Acting as back-up operator for the launch control console (LCC).
- h. Troubleshooting all sub-systems as required.
- i. Performing sub-system checkouts and providing maintenance assistance as a secondary function when directed by the MCCC.

7-13. MISSILE MAINTENANCE TECHNICIAN (MMT).

7-14. The MMT monitors AGE during alert status monitoring. He follows the count-down sequence and assists in malfunction analysis as required. In addition the MMT is responsible for the following tasks:

- a. Acting as back up operator for the LCFC, and assisting the electrical power production technicians as required.
- b. Monitoring the PLPS on TV surveillance cameras during propellant loading exercises.
- c. Supervising post shutdown procedures for accomplishment of missile helium and lox unloading, utilizing recycle procedures from appropriate functional checklists.
- d. Performing sub-system checkouts and provides maintenance assistance as a secondary function when directed by the MCCC.

7-15. ELECTRICAL POWER PRODUCTION TECHNICIANS (EPPT).

7-16. The two EPPT are responsible to the MCCC for the operation of the power generation, distribution, and associated equipment. In addition, the EPPT are responsible for the following tasks:

- a. When an exercise is directed by the MLO, the senior power production technician will immediately take control of all activities and functions in the power house. He will remain in control until the exercise has been terminated or until returned to normal status by direction of the MLO.
- b. Advising the MLO on status of equipment throughout the power house.
- c. Maintaining and completing applicable forms as directed by AFM-66-1, T.O. 00-20E-1, AFR-91-4, applicable SAC supplements, and applicable SAC CEM manuals.
- d. Assisting maintenance dispatched personnel in accomplishing maintenance, when these duties do not interfere with his alert duties and after coordinating with the MLO.