

APPENDIX II (U)

CONDUCT OF SERVICE PRACTICE

Section I. GENERAL

1. Purpose and Scope

a. This appendix is a guide for all personnel concerned with the conduct of service practice for the field artillery missile battalion, Redstone.

b. This appendix covers basic provisions for service practice, responsibilities of individuals, safety precautions peculiar to the Redstone missile system, and phases of service practice.

2. Basic Provisions for Service Practice

a. Purpose. Service practice is a part of the tactical field training of the field artillery missile battalion, Redstone. The preparation, execution, and conduct of fire with tactical missiles is the final phase of training for battle. The techniques of preparation, execution, and conduct of fire must be developed and taught by units before they can be considered qualified to undertake service practice. These techniques must be developed and taught by many mock firing exercises.

b. Scope. Service practice combines all elements of field artillery training—tactical employment, mobility, signal communication, and preparation, execution, and conduct of fire. Service practice with the Redstone missile is conducted as an extension of tactical field exercises wherein the most realistic tactical situation permitted by local conditions is created. These exercises should generally conform to the provisions of Army Training Test 6-635 for field artillery missile battalions, Redstone, except for differences indicated herein.

c. Responsibilities. The battalion commander is responsible for the conduct, scoring, and evaluation of the service practice. Based on recommendations of the battalion commander, the next higher headquarters authorizes and arranges for service practice.

d. Frequency.

- (1) Each field artillery missile battalion, Redstone, will conduct service practice as part of its training under the Army training program.

- (2) Each field artillery missile battalion, Redstone, will conduct service practice during the 3-month period prior to oversea deployment.
- (3) The requirement in (2) above will be fulfilled by the service practice in (1) above, if the service practice falls in the 3-month period prior to oversea deployment.

e. Ammunition Allowances. Ammunition allowances for service practices will be as specified in Table of Allowances (TA) 23-100 or directives from higher authority.

f. Personnel.

- (1) In view of the infrequency of service practice, personnel should be assured of maximum training benefits from each missile fired. The maximum number of personnel assigned to units designated to conduct service practice should participate in these exercises. Unit commanders must be resourceful in initiating and adopting measures designed to provide maximum benefit from firing exercises to personnel of their command.
- (2) All personnel required to monitor, record, and evaluate the service practice, including personnel efficiency and equipment performance, are furnished from other than the participating battalion by commanders ordering the service practice.

g. Materiel and Equipment. The battalion is limited to that equipment authorized in TOE 6-635E, which does not provide additional equipment for monitoring, recording, and evaluating the service practice. Such equipment is provided by commanders ordering the service practice.

h. Command to Cease Fire.

- (1) A command or signal which will cause the operations in progress to cease may be given by any person in Government service when unsafe conditions such as the following are observed:
 - (a) Individuals, vehicles, or aircraft are in field of fire.
 - (b) Malfunctioning of any fire control materiel or safety features thereof.
 - (c) Improper safety procedures are being employed.
- (2) All operations concerning the missile and fire control materiel will cease upon receipt of this command.

i. Adaptation to Local Conditions. Commanders may order that the provisions of this appendix be adapted to local conditions. However, modifications of Department of the Army regulations on safety should not be allowed except as provided herein.

j. Scoring. The battalion's performance is graded as indicated in ATT 6-630, Field Artillery Missile Battalion, Redstone.

k. Personnel Errors. After recording personnel errors for scoring purposes, umpires will insure that these errors are corrected prior to firing the missile. This procedure will limit the cause of impact errors to materiel and equipment deficiencies or malfunctions.

Section II. RESPONSIBILITIES OF INDIVIDUALS

3. General

The discussion contained in FM 6-40 relative to responsibilities and duties of individuals in the conduct of service practice is applicable except as modified herein.

4. Commander Ordering Practice

The commander ordering practice—

a. Arranges for range facilities; coordinates security and clearances; and provides for missile warhead section, propellants, and maintenance support.

b. Specifies the date, time, and place of practice.

c. Appoints safety officers, umpires, and other officials as required.

d. Provides the chief umpire with necessary survey data with which to check the battalion survey.

e. Provides target information to the chief umpire sufficiently far in advance to allow computation and checking of firing data with which to compare that data subsequently computed by the battalion.

f. Provides the battalion with survey control.

g. Prescribes reports required.

5. Officer in Charge

The battalion commander acts as the officer in charge of firing.

6. Umpire Team

a. The chief umpire supervises the performance of duties prescribed for the umpire team and may also be assigned the duty of chief safety officer.

b. The umpire team—

(1) Performs duties and renders reports prescribed.

(2) Scores performance of unit personnel and equipment.

(3) Insures that personnel errors are corrected before missile is fired and that they are recorded for scoring purposes.

(4) Reports to chief umpire when unit is ready to fire.

(5) Provides necessary equipment and instruction to safety officers to enable them to fulfill their mission.

7. Battalion Commander

The battalion commander is normally designated as the officer in charge of firing. He—

a. Insures that organization training has advanced to prescribed standards prior to service practice.

b. Disseminates necessary information concerning practice in advance to his command.

c. Furnishes appropriate practice plans to umpires and officials.

d. Establishes unit standing operating procedure (SOP) on safety peculiar to the local situation, to include provisions for appointment of safety officers.

e. Establishes and enforces restrictions on personnel relative to movement in practice area.

f. Provides for the keeping of necessary records to aid in determination of firing proficiency, training progress, and equipment performance.

g. Assumes responsibility of "commander ordering practice" when his organization is operating independently.

h. Prepares reports for higher headquarters when prescribed. These reports should include recommendations for further training, modification of handling procedures, and doctrinal changes made apparent from service practice. Deficiencies noted during the exercises also should be included.

i. Conducts prompt critiques of the practice, to include personnel, equipment, and missile performance; results of post-attack analysis, if conducted; and discrepancies noted in the conduct of fire.

8. Firing Battery Commanders

The battery commanders—

a. Follow training directives, provisions of this appendix, and pertinent instructions relative to the exercise.

b. Maintain prescribed records relative to firing and forward required reports to battalion.

c. Supervise all activities pertaining to their respective batteries.

Section III. SAFETY

9. General

A unit safety standing operating procedure (SOP) based on information contained in AR 385-63, SR 385-310-5, local directives, and this appendix must outline necessary precautions to be exercised in the handling, testing, transporting, and storing of missiles and associated equipment. Precautions to be observed in firing and detailed duties of safety personnel must also be included.

10. Safety Officers

The commander ordering service practice is responsible for the appointment of safety officers. One safety officer is appointed for each battery to fire in addition to a chief safety officer who may also be the chief umpire.

a. Chief Safety Officer. The chief safety officer—

- (1) Is responsible for all phases of safety throughout the practice exercises.
- (2) Instructs all safety officers in the performance of their duties.
- (3) Coordinates with installation range officer, to include limits of danger area and safety limits.
- (4) Coordinates preparation of safety diagrams.
- (5) Determines when it is safe to fire.
- (6) Furnishes safety officers with safety limits of assigned firing area in written form. This may include a safety diagram or the coordinates outlining the approved impact area.
- (7) Receives report from chief umpire (when not acting in that capacity himself) when missile is ready to be fired and obtains authority from him to fire.
- (8) Authorizes issuance of the command to fire after assuring himself that all safety precautions have been taken.

b. Safety Officers. The safety officers—

- (1) Represent the chief safety officer (chief umpire) at each battery.
- (2) Take posts at assigned firing positions and check for proper laying of the missile, proper employment of electrical check-out procedures, and observance of proper procedures to avoid fire hazards.
- (3) Report to chief safety officer (chief umpire) when missile is ready to fire.

Section IV. PHASES OF SERVICE PRACTICE

11. General

The conduct of service practice includes four phases—preparation; reconnaissance, selection, and occupation of position (RSOP); firing; and post practice. Planning and operations requiring consideration during each phase are outlined in paragraphs 12 through 15, this appendix.

12. Preparation Phase

The preparation phase includes—

a. Issuance of appropriate warning orders by commanders at all echelons.

- b.* Determination of range facilities, availability, and SOP.
- c.* Formulation of assumed tactical situation on which to base subsequent orders.
- d.* Determination of the data needed to evaluate the service practice and the selection of means to provide these data in a suitable form.
- e.* Coordination with the installation range officer to include matters concerning local range safety requirements.
- f.* Checking ground handling, fire control, and firing equipment for condition and adjustment.
- g.* Drawing missiles and warhead sections.
- h.* Checking laying equipment for condition and adjustment.
- i.* Determination of the time service practice is to start and its duration.
- j.* Completing details incident to reconnaissance, selection, and occupation of position.
- k.* Determination of survey requirements.
- l.* Making provisions for communication systems.
- m.* Providing route markers.
- n.* Establishing local security.

13. Reconnaissance, Selection, and Occupation of Position Phase

The RSOP phase includes—

- a.* Reconnaissance and selection of position.
- b.* March discipline.
- c.* Occupation of position.
- d.* Organization of position. Organization includes—
 - (1) Construction of necessary field fortifications, revetments, and shelters.
 - (2) Organization and maintenance of rigid security measures.
 - (3) Exercise of strict camouflage discipline.
 - (4) Laying and final testing of launcher and missile.
 - (5) Determination of survey data.
 - (6) Preparation of missile.
- e.* Simulated attacks on battery positions and motor parks.
- f.* Simulated casualties requiring care and evacuation.

14. Firing Phase

The firing phase includes—

- a.* Computation of data.
- b.* Conduct of firing procedures.
- c.* Final preparations for firing.
- d.* Proper execution of firing sequence.
- e.* Maintenance of records.

15. Post-Practice Phase

The post-practice phase includes—

- a. Police of area.
- b. Checking equipment.
- c. Cleaning and maintenance of equipment.
- d. Displacement.
- e. Reconnaissance of impact area.
- f. Post-attack analysis of fire.
- g. Scoring by umpire teams.
- h. Completing records and reports.
- i. Critique.

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