

DEPARTMENT OF THE ARMY  
HEADQUARTERS, UNITED STATES ARMY MATERIEL COMMAND  
5001 EISENHOWER AVENUE, ALEXANDRIA, VA 22333-0001

AMC REGULATION  
No. 25-30

4 June 2003

Information Management

DEVELOPMENT AND CONTROL OF FIRING TABLES AND  
BALLISTIC FIRE CONTROL INFORMATION

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1. Purpose. This regulation prescribes responsibilities and procedures for preparing Department of the Army (DA) firing tables, generating associated aiming data, and developing and maintaining ballistic fire control software (ballistic kernels) sponsored by the U.S. Army Materiel Command (AMC).

2. Scope. This regulation applies to:

a. AMC elements:

(1) Headquarters, AMC.

(2) Appropriate Major Subordinate Commands (MSCs).

b. All AMC-sponsored DA firing tables; fire control inputs; associated aiming data; ballistic fire control software (ballistic kernels) required for service use of Army weapons such as cannons (mortars, armor, artillery), small arms, free-flight rockets, and guided munitions; in addition to official Foreign Military Sales (FMS) cases and North Atlantic Treaty Organization (NATO) Standardization Agreements (STANAGs) relating to the ballistic fire control domain.

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\* This regulation supersedes AMC-R 25-30 dated 12 October 1994.

### 3. Responsibilities.

a. The Chief, Firing Tables and Ballistics Team (FTaB), Fire Control and Software Engineering Division, Fire Support Armaments Center, U.S. Army TACOM-ARDEC, is responsible for:

(1) The development and revision of all firing tables, associated aiming data and ballistic fire control software (ballistic kernels) required for field use of new weapon systems or weapon system components and materiel altered after the start of production by product improvement or other modification programs. This includes provisional firing tables, fire control data, graphical firing table data, wind cards, ballistic data and algorithms for inclusion in tactical field computers and onboard fire control systems; and data for graduating optical sighting equipment. Similarly, the Chief, FTaB is responsible for revising existing firing tables, associated aiming data and ballistic fire control software, as required. In order to carry out the preparation or revision of firing tables, associated aiming data, and ballistic fire control software, the Chief, FTaB is responsible for:

a) Participating with AMC MSCs and centers, program executive officers (PEOs), and project and product managers (PMs) in determining the need for firing tables, associated aiming data, and/or ballistic fire control software. Coordination with the U.S. Army Training and Doctrine Command (TRADOC) is required.

b) Participating in discussions and studies that may have a bearing on the fire control ballistics domain and any requirements on each new weapon system or weapon system component for which firing tables, or associated aiming data, and/or ballistic fire control software are required.

c) Determining the need for firing tables, associated aiming data, and/or ballistic fire control software, in addition to those specified by the MSCs and centers, PEOs, and PMs, resulting from standardization actions, including interchangeability of foreign munitions and plans for new production.

d) Determining the format and content of the firing tables, in coordination with elements of TRADOC, appropriate AMC elements, and the U.S. Army Publishing Agency (USAPA).

e) Making all plans and arrangements (including coordination with TRADOC and AMC elements) for preparing new, or revising existing, firing tables, associated aiming data, and ballistic fire control software for weapons already in field use as required by changes in standard firing table format and/or content.

f) Specifying requirements to the U. S. Army Test and Evaluation Command (ATEC), appropriate MSCs and PMs for range firings to obtain the required ballistic data for firing tables, associated aiming data, and/or ballistic fire control software from Developmental Tests (DTs), so these requirements can be integrated into the tests.

g) Preparing plans for range firing, or reviewing and recommending changes to the plans written by ATEC for range firing in DTs, or combined Developmental and Operational Tests (DTs and OTs), from which data will be gathered for use in preparing interim firing tables and associated aiming data.

h) Coordinating with ATEC to ensure inclusion of firings for interim firing tables and associated aiming data in DT plans for all development items for which such data are required and for which ATEC is the independent evaluator.

i) Coordinating with ATEC to ensure that the scheduling of the firings allows for data availability consistent with the requirement dates for firing tables.

j) Coordinating with ATEC to ensure the forwarding of all required data from these firings to FTaB.

k) Preparing plans, or reviewing and recommending changes to plans, for range firings whose purpose is to determine whether changes in production materiel have created a requirement for changes in firing tables or associated aiming data, and to provide the required ballistic fire control data in the event such changes are needed. These plans will be coordinated with the appropriate MSCs, activities, PMs and ATEC, as required.

l) Determining the requirements and preparing the plans for range firing production materiel for final firing tables and associated aiming data, selecting or approving the production lot of materiel to be fired, making arrangements for these firings at an appropriate time and coordinating with other AMC activities concerning the funding of the range firings. EXCEPTION: Free-flight rockets and guided munitions may use, for final firing tables, a combination of production prototypes and production materiel; and non-conventional munitions may use ballistically matched substitutes.

m) Integrating all firing table requirements into a time schedule designed to ensure the availability of firing tables, associated aiming data and ballistic fire control software when they are needed in the field, and keeping the schedule current with changing requirements.

n) Reducing and analyzing the results from range firings conducted for the purpose of providing ballistic data for firing tables and associated aiming devices, and computing the elements to be included in the firing tables.

(2) Arranging for the publication and distribution of firing tables in printed and electronic media, as required, and for the provision of associated aiming data and ballistic fire control software to appropriate AMC and user activities. In order to carry out this function, the Chief, FTaB is responsible for:

a) Preparing all firing table manuscripts, graphical firing table and graphical site table templates, and artwork for printing.

b) Preparing for each firing table, a distribution list and DA Form 260 (Request for Printing of Publication) containing printing instructions and justification for any priority required, with date when the publication will be needed by the user.

c) Forwarding manuscripts, distribution lists, and appropriate forms through proper channels for approval, as required.

b. The commanders of the appropriate MSCs and developers are responsible for:

(1) Determining with FTaB assistance, requirements for firing tables, firing table changes, associated aiming data and/or ballistic fire control software for any weapon system or weapon system component within their commands that is to be developed, produced, or altered by product improvement or other modification programs. This determination should be made as early as possible.

(2) Initiating and maintaining coordination with FTaB for all weapon systems where firing tables, associated aiming data, and/or ballistic fire control software are required. This coordination includes:

a) Arranging for FTaB participation in discussions and studies on the weapon systems or components to ensure that those responsible for the preparation of firing tables, associated aiming data, and/or ballistic fire control software are familiar with the characteristics and intended employment of the weapon or components, and with all firing table, associated aiming data, and/or ballistic fire control software requirements.

b) Making certain that FTaB is informed of materiel to be covered in firing tables (such as weapons, projectiles, and fuses) and of key dates affecting the scheduling of firing table preparations, including estimated dates of pertinent DTs and OTs, type classification, and earliest production for service use.

c) Keeping FTaB informed of changes in schedules.

d) Planning, programming, and providing for the supply of development materiel (by the developer) to the testing agency for range firing programs in DTs and OTs of development and product improved items that require firing tables and associated aiming data. These programs will supply data to FTaB for use in the preparation of provisional and interim firing tables and associated aiming data for service use.

e) Planning, programming, and providing for the supply of production material (by the developer or major command) to the testing agency for range firings to satisfy the requirements of the developer and FTaB for final firing tables and associated aiming data. EXCEPTIONS: Free-flight rockets and guided production prototypes and

production material, and non-conventional items may use ballistically matched substitutes.

f) Providing FTaB with a list of all combinations of materiel to be covered in firing tables and other fire control data.

(3) Arranging for and funding (by the developer or major command) of the range firings planned or approved by FTaB; and for the development of the required firing tables and associated ballistic aiming data and software. The range firings are included in the DTs and OTs of the development items.

(4) Arranging for and funding (by the developer or major command) of range firings and the development and control of firing tables and associated ballistic data for production materiel for those items described in paragraph 3b(2)(e) above.

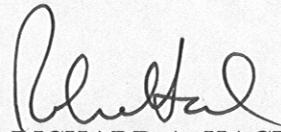
(5) Arranging for and funding (by the developer or major command) of firings planned or approved by FTaB to determine the need for firing table changes for use in the preparation of firing table changes necessitated by production improvement or other modification programs.

c. The Chief, IT Programs & Support Division (AMCIO-R), Headquarters, AMC, is responsible for performing publications control review, forwarding each manuscript to the U.S. Army Publishing Agency (USAPA) and maintaining liaison with USAPA on printing problems.

The proponent of this regulation is the United States Army Materiel Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, U.S. Army Armament Research, Development, and Engineering Center, ATTN: AMSTA-AR-FSF-T, Aberdeen Proving Ground, MD 21005-5001

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