



TACTICAL FIRING TABLES DISTRIBUTION CENTER

LABORATORY INFORMATION FACT SHEET

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The Firing Tables and Ballistics Division (FTaB) Tabular Firing Tables (TFTs) Distribution Area is a 1,500 square-foot work space devoted to the stock and issue of TFTs

TECHNOLOGY/FACILITY DESCRIPTION:

Located at FTaB headquarters, Aberdeen Proving Ground, Maryland, this area includes a well designed inventory and shipping layout and in recent years, an average of 25,000 hard copy TFTs have shipped annually. The primary mission of the Firing Tables and Ballistics Division (FTaB) is ballistic characterization of munitions and the

development of aiming data, ballistic fire control information and ballistics fire control software for all unguided and certain guided combat weapon systems in the U.S. Army inventory, select tri-service systems and select foreign military sales cases. This includes small caliber infantry systems, mortars, tank fired munitions, artillery, missiles and rockets.

EQUIPMENT AND EXPERTISE AVAILABLE:

- Characterization of projectile ballistic performance
- Development of analytical algorithms, methodology, ballistic trajectory models, and data bases relating to stability and flight performance of conceptual, developmental and fielded ammunition in free flight, course corrected flight and full guided flight
- Development of ballistic algorithms, methodologies, and data bases relating to fire control computers and manual backups
- Development of ballistic fire control software (Ballistic Kernels)
- Supply of ballistic, flight dynamic, and general ballistic expertise and support to Department of Defense (DoD) and industry for munitions and fire control equipment in the development cycle
- Development of a rational basis for NATO and multinational standardization agreements involving interior and exterior ballistic simulation models, ballistic algorithms, firing table elements and fire control methodology
- Publication and distribution of Tabular Firing Tables
- FTaB is the primary source for U.S. forces for the interchangeability of NATO ammunition fire control information
- Fire control methodology and software for advanced technical demonstrations and advanced warfighting experiments
- Ballistic characterization and ballistic support for advanced, developmental and smart munitions
- Projectile guidance and control technology
- Standardization, cost avoidance initiatives and development of reusable and sharable software to ultimately create a horizontal domain in fire control ballistics
- Unification of the fire control ballistics software domain through the development and application of ballistic kernel software products
- Cooperative efforts with NATO and allied countries involving ballistic technology and testing, ammunition interchangeability and enhanced meteorology