



AUTOMATED RECORD FIRE (ARF) RANGE



NARRATIVE DESCRIPTION



Purpose

TC 25-8 Training Ranges dated 20 May 2010 is the basis for the information in this section. The Automated Record Fire range, FCC 17805, is used to train and familiarize soldiers on the skills necessary to identify, engage and defeat stationary infantry targets for day/night qualification requirements, with the M16 & M4 rifles. The training conducted on this range could also be achieved on a Modified Record Fire range. This range supports night fire operations and can also be used for automatic rifle practice.

Firing Line

The standard firing line is 320m long with sixteen 20m wide lanes. Each lane must have a fighting position and an adjacent position for the soldier to conduct prone firing. Firing positions should be on slightly elevated ground and designated with numbered markers. Refer to the standard Civil Details for details of the firing positions.

Downrange Area

Layout

Refer to the Layout Details in the Appendix of this document for a typical Automated Field Fire range layout. Target mechanism placements must conform as closely as possible to the established distances. With the approval of TCM-L and the installation, the distances may vary by ± 1 meter in order to avoid undesirable locations such as depressions or drainage.

Targets

This range has 16 firing lanes; each lane is 20 meters wide by 300 meters long. A single lane has seven fully automated stationary infantry targets: 2 at 50m, 1 at 100m, 1 at 150m, 1 at 200m, 1 at 250m, and 1 at 300m. Each target is equipped with night muzzle flash simulators that can be used at the determination of the trainer.

Primary Features Include

- 112 Stationary Infantry Targets
- 16 Fighting positions

Targetry

All targets are fully automated and the event specific target scenario is computer driven and scored from the range operations center. The range operating system is fully capable of providing immediate performance feedback to the using participants.

Associated Range Operations and Control Facilities

- Control Tower – Small Arms
- Operations/Storage Building
- Classroom Facility
- Latrine
- Bleacher Enclosure
- Covered Mess
- Ammunition Breakdown Building

Requirement Document

- FM 3-22.9 Rifle Marksmanship M16A1, M16A2/3, M16A4, M4 Carbine

Additional Information

Night firing is accomplished in the same process as the day qualification. All targets should be thermal capable. Unassisted night-fire is accomplished from the baseline, firing at the 50m targets. One of the 50m F-type silhouettes should be replaced with an E-type silhouette during Unassisted Night Fire (UNF). The 50m target emplacements are equipped with Night Muzzle Flash Simulators (NMFS) to facilitate unassisted night fire requirements.