

Battle Effects Simulators

General: Battle Effect Simulators (BES) are used on training ranges to help prepare soldiers and vehicle crews for realistic combat conditions. The BES fires pyrotechnic cartridges that simulate the sound, smoke, and flash of munitions fired from a target or munitions hitting the target.

The BES is installed at the target emplacement and/or on the Moving Armor Target (MAT) carrier. The BES utilizes 2 types of cartridges to simulate battle effects: the M30 Smoke Cartridge, and the M31 Flash Cartridge. Safety procedures per the devices Technical Manual must be observed prior to loading and unloading cartridges.

The computer located in the ROC sends programmed commands to the BES to fire the cartridges. A flash cartridge is used to simulate an enemy target firing at a soldier. Once the enemy target has been raised and exposed for a user-defined amount of time, the flash is fired. If the enemy target is fired upon and hit, the smoke cartridge is fired simulating a burning enemy vehicle.