



NON-LETHAL SYSTEMS



“Non-Lethal munitions give warfighters the flexibility to respond to threats while reducing the danger of inflicting unnecessary casualties.”

PROJECT MANAGER CLOSE COMBAT SYSTEMS

PMCCS

NON-LETHAL SYSTEMS AND MUNITIONS

Non-lethal systems and munitions are weapons, devices and munitions that are explicitly designed and primarily employed to immediately incapacitate targeted personnel or materiel, while minimizing fatalities, permanent injury to personnel and undesired damage to property in the target area. Non-lethal weapons are intended to have reversible effects on personnel and materiel.

NON-LETHAL MUNITIONS (NLM) EXPAND WARFIGHTER CAPABILITIES

In the jumbled terrain of modern urban combat, the need to **distinguish combatant from noncombatant is paramount**. NLM facilitate this by providing commanders the flexibility to influence the situation favorably with increased safety to U.S. Forces while **reducing risk** of both noncombatant fatalities and **collateral damage**.

PM CCS is working to acquire the next-generation, extended range NLM for the warfighter. Two, in particular, will **fill critical gaps** in current non-lethal capabilities and assist the warfighter in applying Escalation of Force (EOF) procedures – the XM1044

40mm MK19 round and the XM1116, 12 gauge Extended Range Marking Round.

The range advantage and rapid fire capability of the XM1044 over current munitions will **give warfighters that extra split second** to evaluate the situation and avoid a tragic mistake. EOF is all about a measured, sequential response to a perceived threat. As GEN David H. Petraeus, the current Commander, U.S. Central Command, has noted, “...**you must shape situations** to minimize the tough calls, and train our leaders on how to react... this will reduce the number of Iraqi civilian injuries and deaths.”

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NON-LETHAL CAPABILITIES SET (NLCS)

PM CCS is actively involved in the fielding of the NLCS to active duty and National Guard brigades throughout the Army. The set provides a variety of capabilities that include counterpersonnel and materiel systems, protective and enhancement devices and support equipment. The modularity of the NLCS allows the commander to tailor equipment needs based on a specific mission or threat level. Configured to equip a brigade and packed in ten quad con containers for easy storage and handling, the NLCS can be rapidly deployed by military transport or commercial carrier.





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FULL SPECTRUM EFFECTS PACKAGE (FSEP)

FSEP is the first integrated package of lethal and non-lethal capabilities to support EOF on a Stryker vehicle. Components include the Long Range Acoustic Device, Bright White Light, Projectile Detection and Cueing and the GBD-III Laser Dazzler. FSEP has already demonstrated its effectiveness by successfully resolving several conflicts with noncombatants.

ACOUSTIC HAILING DEVICE (AHD)

AHD is a non-lethal, counterpersonnel, long-range hailing and warning device capable of producing highly directional sound beams, allowing users to project warning tones and intelligible voice commands beyond small arms engagement range. This capability helps Soldiers more effectively determine the intent of a person, crowd, vessel, or vehicle at a safe distance, potentially deterring them prior to escalating to lethal force.

FN303 LESS LETHAL LAUNCHING SYSTEM

The FN303, a niche item sustained for theater only, is a compressed air-operated, semi-automatic launcher designed to fire non-lethal projectiles at ranges of 10m –100m, giving the warfighter the ability to engage targets with non-lethal force at increased distances and accuracy. Often called a “paintball gun on steroids,” the pneumatic launcher fires a polystyrene .68 caliber projectile that can either mark or deliver a blunt impact to a target. The magazine holds 15 rounds and the pressurized air tank has a 110 shot reservoir capacity.

TASER® X26E STUN DEVICE

The Taser® is an electro-muscular incapacitation device, used to propel wired-probes or to conduct energy directly to affect sensory and motor functions, allowing control over a targeted individual. It can deliver an electrical shock capable of arching up through two inches of clothing and can incapacitate a target without permanent injury or known side effects. The effective range is up to 35 feet.

NON-LETHAL MUNITIONS

40MM NLM

The U.S. Army currently fields the M1006 Point Target Round, better known as the “Sponge Grenade” and the M1029 Crowd Dispersal Cartridge. Each is intended for close quarter engagement, can engage three or more targets at once and is fired from a standard M203 Grenade Launcher. XM1044 gives the warfighter a long range, rapid fire, non-lethal capability using the standard MK19 machine gun.

12 GAUGE NLM

The M1012 Point Round and the M1013 Area Round are the Army’s current 12 gauge NLM. Both rounds engage targets at close range only. The XM1116 is an extended range NL round which will greatly increase the reach of the Soldier in engaging approaching targets.

NON-LETHAL HAND GRENADES

The M84 Stun Grenade uses a bright flash and loud report to disorient individuals allowing for dispersal or easier apprehension. It is intended for use in confined spaces such as room clearing. The XM104 Non-Lethal Bursting Hand Grenade produces a shower of high velocity rubber pellets that sting and disorient potential targets.

66MM NL GRENADES

The L96A1 Riot Control Grenade projects a cloud of riot control agent at extended ranges to subdue and disperse large groups. The M98 and M99 are the latest in a growing arsenal of NLM. The M98 Distraction Grenade releases three stun sub-munitions that produce a bright flash and loud report to disorient individuals or large groups. The M99 Blunt Trauma Grenade fires three sub-munitions that each release a shower of high velocity rubber pellets into a crowd.

HAND EMPLACED NL MUNITION

The M5 Modular Crown Control Munition or “non-lethal claymore” physically resembles its lethal cousin but uses 600 hard rubber pellets to disperse crowds at close range.



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