



Joint Non-Lethal Weapons Program (JNLWP) Update for the Joint Armaments Conference 15 May 2012



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Non-Lethal Weapons & Munitions in Use



Counter-Personnel



12 Gauge / 40 mm Point, Area and Flash Bang Munitions



FN303



Washable Paint



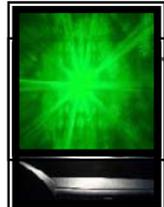
Permanent Paint



Training



NL Tube Launched Munition System - VENOM



Optical Distractors



X-26 Taser



Modular Crowd Control Munitions



66mm Vehicle Launched NL Grenades



Flash Bang Grenades



Vehicle Lightweight Arresting Device M2 Net



Stingball Grenades & Launch Cups



Pen Flares



Acoustic Hailing Devices



Acquisition Programs



Counter-Personnel

Suppress, Move and / or Deny Individuals / 1-300 Meters



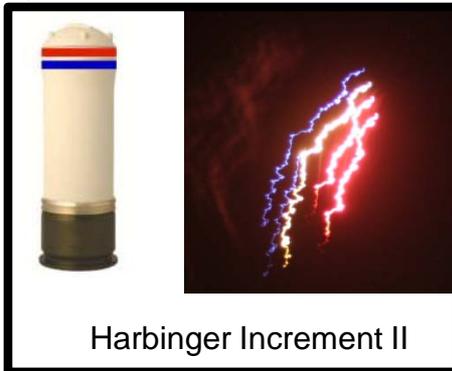
Airburst Non-Lethal Munition

Army Lead
Milestone C: FY13



Improved
Flash
Bang
Grenade

SOCOM Lead
Milestone C: FY13



Harbinger Increment II

SOCOM Lead
Milestone C: FY13



Mission Payload Module

USMC Lead
Milestone C: FY15

Counter-Materiel

Stop Vehicles, Stop Vessels, & Deny Access to a Facility



Single Net Solution

M2 Net

USA Lead
Milestone C:
FY13

Vehicle Lightweight Arresting Device (VLAD) Single Net Solution (SNS) & Remote Deployment Device (RDD)



Joint Integration Program



DESCRIPTION:

The JIP is a forum established to coordinate a comprehensive program that maintains state-of-the-art non-lethal capability sets (NLCS) for each Service through product demonstrations, sharing lessons learned, and evaluating commercial off-the-shelf (COTS) products for potential inclusion into Service NLCS.

PERFORMERS:

USA, USN, USAF, USMC and USCG

Non Voting Members: SOCOM, NIJ, CBP, BOP, DOS, DOE and NGB

FY11 EFFORTS:

- NLMC III (Characterization of Foreign Munitions)
- NL Interactive Trainer Evaluation
- OC Dispenser Evaluation

FY12 EFFORTS:

- Soft Stop Barrier Evaluation
- Crew Served White Light Evaluation
- NL Range Requirements II (Human Exposure)

FY13 OBJECTIVES

- Maritime Environmental Testing Standardization
- NL Munitions Characterization Database
- RCA Receptor Blocker

PREVIOUS EVALUATIONS:

- Shotgun / NL 12 Gauge Ammo Performance Testing (2001)
- OC Dispenser Evaluation (2001)
- Personal Fire Extinguisher (PFE) Evaluation (2002)
- OC Dispenser / Taser Flammability Testing (2002)
- RCA Decontamination Evaluation (2002)
- Individual Flashlight Evaluation (2003)
- Dojo Target Evaluation (2004)
- Platoon sized Fire Extinguisher (2004)
- Combo Baton / Tigerlight Evaluation (2006)
- Portable Entanglement Device (Vessel Stopper) Evaluation (2007)
- Shotgun Launch Cup (Stingball Grenade) Evaluation (2008)
- 40mm Reloadable Training Round Evaluation (2008)
- Taser (M26 & X26) Aiming Laser Optical Evaluation (2008)
- NLMC I (2008) & II (2009)
- NL Munitions Integration into HEMAP (2010)
- Spike Strip Evaluation (2010)
- COTS CS Grenade Evaluation (2010)
- NL Range Requirements Evaluation (2010)



JIP Researcher Target List



JIP RESEARCHER TARGET LIST		
Counter Personnel (CP) or Counter Materiel (CM)	Platform/Tech Area	Potential Solutions
Counter Personnel		
CP	40mm	IR Marking Capability
CP	40mm	Area (multiple targets) munitions
CP	40mm	Long-range (100-300m) point munitions
CP	40mm	Variable velocity/scalable effects munitions/launchers
CP	40mm	HEMI/point munition integrated solutions
CP	40mm	HEMI/area munition integrated solutions
CP	40mm	High velocity NL ammunition
CP	12 ga.	Variable velocity/scalable effects munitions/launchers
CP	12 ga.	IR Marking Capability
CP	12 ga.	Extended range projectiles (100m+)
CP	12 ga.	Area (multiple targets) munitions
CP	5.56/7.62	NL ammo for current weapon platforms
CP	5.56/7.62	Reduced range ammo for current weapon platforms
CP	HEMI	Extended duration HEMI devices
CP	HEMI	Batons/shields/uniforms with integrated HEMI effects
CP	Hand Grenade	Non-pyro sight and hearing suppression device
CP		Integrated systems (multiple devices/munitions/effects)
CP	Microwave	Miniaturized sources/antennas for MW tech
CP	Hail & Warn	Multi-shot flare launcher
Counter Materiel		
CM	40mm	Vehicle stopping munitions
CM	Microwave	Miniaturized sources/antennas for MW tech
CM	Microwave	Vehicle/vessel-mounted tech
CM	Microwave	Anti-aircraft (grounded) MW tech
CM	Barriers	Anti-vehicle barriers
CM	Port Security	Anti-vessel devices/nets
CM	Port Security	Anti-swimmer devices/nets
CM	Area denial (facility) tech	Sensor-operated acoustics (Mosquito)
CM	Area denial (facility) tech	Sensor-operated munitions (Spider)
CM	Convoy Security	On-the-move vehicle stopping solutions
CM	FOB/Convoy Security	Covert vehicle stopping solutions
CM	FOB/Convoy Security	Extended range (200m+) vehicle stopping solutions
CM		Integrated systems (multiple devices/munitions/effects)
CM	Hail & Warn	Multi-shot flare launcher
CM	Hail & Warn	Aiming device for flare launcher



JSSAP – JNLWP Cooperation

DRAFT CONCEPT: *A single man-portable system that provides the full range of non-lethal to lethal capability*

▪ **Technological Approaches**

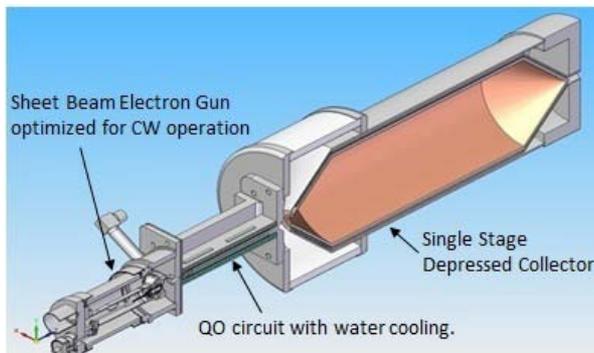
- Directed energy
- Proximity fuze technology
- Variable velocity
- Selectable projectiles

▪ **2013-2014 Plan**

- Develop concept
- Craft Joint resourcing strategy
- Manage redundancy (Army INS)
- Issue solicitation 2QFY13



FUNCTIONAL PROTOTYPE SHOWN



DoD NL Target Investments



Blunt Trauma Test Target (BTTT)

Why: No valid surrogate to assess HE from blunt impact NL Munitions

For What: Acceptance Lot Testing, Warfighter Training, NLTK Growth

What: BTTT, Software, Firmware, Data Acquisition & Users Guide

ECD: 15 Aug 12

Performer: L3 Communications & HECOE

Non-Lethal Target Kit (NLTK)

Why: Develop NLTK's to measure multi-sensory terminal effects

For What: Measure MPM Suppression & RSI Levels for Operational Test

What: NLTK,

ECD: 4QFY12 (But reevaluating based upon MPM Program Schedule/Need)

Performers: MCWL, GTRI, HECOE

HEMI Projectile Test Target (HPTT)

Why: Design Human Target Simulant for Harbinger Inc. 4 & DPT

For What: Measuring Attachment reliability of HEMI Projectiles & Effects Based Design

ECD: 4QFY13

Performer: L3 Communications & HECOE

Human Surrogate Test Target (HSTT)

Why: Support Testing & Training of NLW's in Operational Scenarios

For What: Develop a High Bio-Fidelity Instrumented Human Surrogate with Anatomical Mimics for the Head & Key Body Parts

What: Interfaces directly with HEMAP for all NL Stimuli

ECD: TBD

Performers: TBD

Propose a JNLWP Budget Line Item be established for FY13-18 to align efforts.





What is your Response?

