Joint Non-Lethal Weapons Program (JNLWP)
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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**

- **X-26 Taser**

- **Modular Crowd Control Munitions**

- **66mm Vehicle Launched NL Grenades**

- **Vehicle Lightweight Arresting Device M2 Net**

- **Stingball Grenades & Launch Cups**

- **Pen Flares**

- **Acoustic Hailing Devices**

- **Optical Distractors**

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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**
  - USA Lead
  - Milestone C: FY13

- **M2 Net**

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

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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)
• NL Munitions Integration into HEMAP (2010)
• Spike Strip Evaluation (2010)
• COTS CS Grenade Evaluation (2010)
• NL Range Requirements Evaluation (2010)
<table>
<thead>
<tr>
<th>Counter Personnel (CP) or Counter Materiel (CM)</th>
<th>Platform/Tech Area</th>
<th>Potential Solutions</th>
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<tr>
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<tr>
<td>CP</td>
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<td>IR Marking Capability</td>
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<tr>
<td>CP</td>
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<td>Area (multiple targets) munitions</td>
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<td>CP</td>
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<tr>
<td>CP</td>
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<tr>
<td>CP</td>
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<td>HEMI/point munition integrated solutions</td>
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<td>HEMI/area munition integrated solutions</td>
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<tr>
<td>CP</td>
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<tr>
<td>CP</td>
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<td>Variable velocity/scalable effects munitions/launchers</td>
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<td>CP</td>
<td>12 ga.</td>
<td>Extended range projectiles (100m+)</td>
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<td>Area (multiple targets) munitions</td>
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<tr>
<td>CP</td>
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<tr>
<td>CP</td>
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<tr>
<td>CP</td>
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<td>Extended duration HEMI devices</td>
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<tr>
<td>CP</td>
<td>HEMI</td>
<td>Batons/shields/uniforms with integrated HEMI effects</td>
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<tr>
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<tr>
<td>CP</td>
<td>Integrated systems (multiple devices/munitions/effects)</td>
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<tr>
<td>CP</td>
<td>Microwave</td>
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<tr>
<td>CP</td>
<td>Hail &amp; Warn</td>
<td>Multi-shot flare launcher</td>
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<td><strong>Counter Materiel</strong></td>
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<tr>
<td>CM</td>
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<td>Vehicle stopping munitions</td>
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<td>Microwave</td>
<td>Vehicle/vessel-mounted tech</td>
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<td>CM</td>
<td>Microwave</td>
<td>Anti-aircraft (grounded) MW tech</td>
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<td>CM</td>
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<td>Area denial (facility) tech</td>
<td>Sensor-operated acoustics (Mosquito)</td>
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<td>Sensor-operated munitions (Spider)</td>
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<tr>
<td>CM</td>
<td>Convoy Security</td>
<td>On-the-move vehicle stopping solutions</td>
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<td>CM</td>
<td>FOB/Convoy Security</td>
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<td>CM</td>
<td>FOB/Convoy Security</td>
<td>Extended range (200m+) vehicle stopping solutions</td>
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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
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.