JNLWP Update to the International Infantry & Joint Services Small Arms Symposium

Less Lethal Capabilities in the Escalation of Force

19 May 2009

Kevin Swenson
Acquisition Division Chief, JNLWD
3097 Range Road
Quantico, VA 22134
Non-Lethal Weapons & Munitions in Use

Counter-Personnel Capability Gaps

- 12 Gauge / 40 mm Point, Area and Flash Bang Warning Munitions
- FN303
- Washable Paint
- Permanent Paint
- Training
- 66mm Vehicle Launched NL Grenades

- X-26 Taser
- Modular Crowd Control Munitions
- Stingball Grenades & Launch Cups
- Pen Flairs
- Obstacle Distractors
- Flash Bang Grenades
- Vehicle Lightweight Arresting Device M2 Net
- Acoustic Hailing Devices

Distribution Statement A – Approved for Public Release
NLW Munitions Developmental Efforts

Counter-Personnel Capability Gaps
Suppress, Move and / or Deny Individuals / 1-150 Meters
- MK19 NL Munition (USA Lead)
- Improved Flash Bang Grenade (SOCOM Lead)

Counter-Personnel Capability Gaps
Suppress, Move and / or Deny Individuals / 100-300 Meters
- Joint NL Warning Munitions (USN Lead Milestone C: 2QFY09)
- Mission Payload Module (USMC Lead Milestone C: 4QFY12)
- Airburst NL Munition (USA Lead Milestone C: 4QFY11)
Joint Integration Program (JIP)

DESCRIPTION:
The Joint Integration Program (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.

JIP Researcher –
shawn.williams@americansystems.com

Recent Accomplishments:
• NLM Test Harmonization MOA Staffed for Joint Signatures
• Updated JIP MOA in final JNLWD review
• NLERM Market Research
• Oct 08 JIP Meeting at Nellis AFB, NV

Future Activities:
• Follow-on NLM Characterization (PSU)
• Spike Strip Evaluation (USAF)
• JIP Range Kit Purchase (JNLWD)
• May 09 JIP Meeting in Dumfries, VA

Performers:
• JNLWD (JIP Chair) American Systems – JIP Researcher
• Services to include USCG
• Various vendors with COTS & developmental items

Next JIP Meeting – 21-23 Oct at Nellis AFB, NV

SCHEDULE & COST:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FY09</th>
<th>FY10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1Q</td>
<td>2Q</td>
</tr>
<tr>
<td>NLM Characterization II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spike Strip Eval</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JIP Kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JNLWP Funding

<table>
<thead>
<tr>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
</tr>
</thead>
<tbody>
<tr>
<td>$700K</td>
<td>$700K</td>
<td>$600K</td>
</tr>
</tbody>
</table>

SUPPORTED BY: USA, USAF USMC, USN, USCG and SOCOM
Non-lethal Munitions Characterization

DESCRIPTION: This effort is a follow on to the initial NLMC. This includes testing of available COTS non-lethal 12 gauge, 40mm, Flash-bang Grenades and Multi-Sensory Stingball Grenades. Data captured during the test events will feed into the Advanced Total Body Model (ATBM) to determine injury potential. The results of this effort will assist the Services and other Government Agencies with non-lethal ammunition procurement.

TYPE OF DATA BEING GATHERED INCLUDES:
1) Muzzle velocity, 2) Accuracy, 3) Impact Energy
4) Weapons Fouling, 5) Blast Pressure, 6) Light Intensity,
7) Impact Pattern, 8) Velocity at range

Recent Accomplishments:
• Gathered Multi-sensory grenades and Blunt Impact non-lethal munitions
• HECOE Coordination on ATBM input requirements

Future Activities:
• Conduct test events and gather data.
• Reduce Data and write Test report
• Service down-select ammo to flow through ATBM
• Back brief ammunition manufacturers on test processes and results

Performers:
• Penn State University-Performer
• JNLWD-JIP PM

SCHEDULE & COST:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FY09</th>
<th>FY10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1Q</td>
<td>2Q</td>
</tr>
<tr>
<td>Gather test articles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete test events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Write Test Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Report</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JNLWP Funding

| FY09 | $186K |

Distribution Statement A – Approved for Public Release
Business Opportunities

- FY10 JNLWP Science & Technology “Clear A Space without Entry” BAA
  - Planned Release Date: Jun 09, Closes: Aug 09
  - [https://www.jnlwp.com/admin/solicitations.asp](https://www.jnlwp.com/admin/solicitations.asp)
- FY10 JNLWP Science & Technology BAA
  - Planned Release Date: Jun 09, Closes: Aug 09
  - [https://www.jnlwp.com/admin/solicitations.asp](https://www.jnlwp.com/admin/solicitations.asp)
- Improved Flash Bang Grenade (IFBG) Request for Proposals
  - Released: 13 Feb 09, Closes: 15 Jul 09
  - [www.crane.navy.mil/acquisition/synopcom.htm](http://www.crane.navy.mil/acquisition/synopcom.htm)
  - Anticipate Contract Award – Nov 09
- XM-104 NL Bursting Hand Grenade – Performance Specification
  - Released: 8 Apr, Closes: 26 Jun 09
  - Restricted to National Technology Industrial Base
  - [http://procnet.pica.army.mil](http://procnet.pica.army.mil)
  - Anticipate Contract Award Sep 09
- XM1140 Extended Range Blunt Impact / Marking Munition
  - Request For Proposals expected to be release in Jun 09
  - Contract Award scheduled for 4QFY10
  - [http://procnet.pica.army.mil](http://procnet.pica.army.mil)
- Mission Payload Module – NL Weapon System
  - Request for Proposals – Jun 09
  - Contract Award estimated for Dec 09
  - [https://www.fbo.gov](https://www.fbo.gov)
What is your Response?