Joint Armaments Forum, Exhibition, & Technical Demonstration

May 13, 2014
Phoenix Convention Center Phoenix, AZ
Overview

- DoD Non-Lethal Weapons Program
- Non-Lethal Capabilities Relevance
- Current and Emerging Non-Lethal Capabilities
- Industry Opportunities / Technology Challenges
- Wrap-Up / Questions
DoD Non-Lethal Weapons (NLW) Program

“Weapons, devices, and munitions that are explicitly designed and primarily employed to incapacitate targeted personnel or materiel immediately, while minimizing fatalities, permanent injury to personnel, and undesired damage to property in the target area or environment. NLW are intended to have reversible effects on personnel and materiel.”

DoD NLW Policy:*  

“...expand the range of options available to commanders”

“Enhance the commander’s ability to capture or incapacitate high value targets”

“The availability of NLW will not limit the commander’s inherent right...to exercise unit self-defense”

“NLW may be used in conjunction with lethal weapon systems to enhance their effectiveness and efficiency in military operations...”

*DoDD 3000.03E, DoD Executive Agent for Non-Lethal Weapons (NLW), and NLW Policy

General James F. Amos
Commandant of the Marine Corps

Non-lethal effects are part of the Department of Defense portfolio of capabilities that enhance the Joint Force Commander’s ability to act in a timely manner to detect, deter, prevent, defeat, or, if necessary, mitigate effects of an attack.”

General James F. Amos
Congressional Testimony
March 16, 2011

Distribution A: Approved for Public Release; Distribution is unlimited.
Defense Strategy

Three Pillars:

- Protect the homeland
- Build security globally
- Project power and win decisively

Non-Lethal Capabilities Relevance

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Non-Lethal Capabilities Relevance (cont.)

Protect the Homeland
Non-lethal capabilities provide force application options to protect US citizens and infrastructure in the event of a catastrophic domestic incident.

Build Security Globally
Information exchanges and training exercises involving non-lethal capabilities are fundamental part of DoD's security cooperation efforts to build partner capacity.

Project Power and Win Decisively
Fully integrated non-lethal competencies that enable force application for short of lethal scenarios will complement the unmatched and overpowering lethal firepower that will always be the hallmark of U.S. forces.

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Non-Lethal Capabilities provide Force Application options for use in proximity to civilians or to deny and preserve key infrastructure.

Representative Mission Applications Across the Broad Spectrum of Conflict

Shape ---- Deter ---- Dominate ---- Stabilize ---- Enable Civil Authority

Foreign Humanitarian Assistance       Clearing Structures / Facilities       Detainee Operations

Noncombatant Evacuation Operations    Check-Point / Convoy Security     Perimeter / Area Security

Vessel Boarding, Search and Seizure   Vehicle / Vessel Stopping       Crowd Dispersion

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NL Weapons, Munitions & Devices Range Overview

**Legend**
- Human Electro-Muscular Incapacitation
- Blunt Trauma
- Flash Bang
- Optical Distraction
- Active Denial

**Equipment**
- Taser
- Modular Crowd Control Munition
- 12 GA
- M84 BTV1 Flash Bang Grenade
- 40MM
- Venom 40MM
- MPM
- Dazzling Lasers
- Green Laser Interdiction System
- Active Denial System

**Ranges**
- 12 GA: 130m (Daytime)
- 40MM: 130m (Daytime), 150m (Nighttime)
- Venom 40MM: 300m (T), 400m (O)
- MPM: 300m (T), 500m (O)
- Dazzling Lasers: Infrared (Daytime), Blue Light (Nighttime)
- Green Laser Interdiction System: Magnetic (Daytime), BLU-40 (Nighttime)
- Active Denial System: Invisible Millimeter Wave Directed Energy Beam

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Industry Opportunities

• Considerable **technology challenges** remain in developing next generation non-lethal capabilities

• The JNLWD intends to pursue a **Research & Technology Indefinite Delivery – Indefinite Quantity (IDIQ) Multiple Award Contract**
  – Notional Timeline: Draft Request for Proposals (RFP) – 1st Quarter FY15 with Contract Award(s) – 3rd Quarter FY15

• Publication of a **Broad Agency Announcement** is also imminent

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**Check JNLWP website and FedBizOps routinely for updates.**

http://jnlwp.defense.gov

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*Informational and planning purposes only. Does not bind the Government to contract for any supply or service. Official requirements and instructions would be provided in a final released Request for Proposal (RFP).*
Illustrative Technology Challenges

- Advanced materials and payloads to non-lethally hail/warn, move, deny area, suppress, and temporarily disable individuals at ranges > 100 meters
- Directed energy technologies with reduced size, weight and cost for vehicle / vessel stopping
- Compact active denial technologies for non-lethal counter-personnel “push-back” or “repel” capabilities
- Clear-a-Space Technologies
- Human Electro-Muscular Incapacitation technologies to disable point targets or multiple targets (open and confined)
- Compact non-pyrotechnic flash-bang and “multi-bang” technologies
- Human Effects and NLW Weapon Effectiveness Studies, Risk Assessments, and Evaluations

Additional DoD Non-Lethal Weapon Program Briefs during the Joint Armaments Forum

- 14 May - **NL/NK Directed Energy Weapons**
  Unconventional & Emerging Armaments Program Session

- 14 May - **NLW Human Effects Tutorial**
  Unconventional & Emerging Armaments Program Session

- 14 May - **NLW Update**
  Small Arms Program Session

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Questions?

http://jnlwp.defense.gov