Joint Non-Lethal Weapons Program
Brief to the Joint Services Small Arms Symposium

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NLW Guiding Principals

• Range - Beyond 100 Meters
• Volume of Fire
• Point & Area Munitions
  – Incapacitate Individuals / Disperse Crowds
• Tag / Mark Individuals – Multi Sensory
• Duration of Effects
• Focus on NL Payload versus Launching Platform
  – Universal Effect Desired
• Fire From Existing / Developmental Weapons
• Lightweight
• Joint Service / Agency Applicability
• Extended Shelf Life
NL Development / Study Efforts

- Electro Muscular Disruption
- Individual Servicemans NL System
- Joint NL Warning Munition
- MK19 NL Short Range Munition
- Pulsed Energy Projectile
- Portable Active Denial System
- Personnel Halting and Stimulation Response
Airburst Non-Lethal Munition (ANLM)

25mm Low Velocity:
- XM25 Grenade Launcher
- Minimum engagement range 40 meters
- Maximum effective range 500 meters
- Semi-automatic weapon function
- Precision electronic timed airburst fuze

Potential Payloads:
- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption

25mm High Velocity:
- Advanced Crew Served Weapon
- Minimum engagement range 100 meters
- Maximum effective range
  - 500 meters point fire
  - 1500 meters area fire
- Full-auto weapon function
- Precision electronic timed airburst fuze

Potential Payloads:
- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption

40mm Low Velocity:
- XM-320 / M203 / M79
- Minimum engagement range 40 meters
- Maximum effective range
  - 150 meters point fire
  - 300 meters area fire
- Proximity fuze

Potential Payloads:
- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption

40mm High Velocity: PROGRAM OF RECORD
- MK19/MK47
- Minimum engagement range 40 meters
- Maximum effective range
  - 500 meters point fire
  - 1500 meters area fire
- Full-auto weapon function
- Proximity fuze

Potential Payloads:
- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption
Non-Lethal Mission Payload Module

Accomplishments

- Milestone A decision, 7 Dec 04
- HMMWV – Initial Increment (MCCDC CDD in Development)
- AoA, OMS-MP & COE underway – Completion this Summer
- 15 Jun 05 – Joint Requirements IPT Meeting
- Endorsed by FCS NLW Trade Study

Future Activities

- Engineering / Trade Studies & Assessments – Results – Jul 05
- In-Process Review with MDA, Jun 05 / MS B planned for 4QFY07
- CDD staffed for joint input prior to staffing for signature

USMC Lead, USA, USAF, USN and USCG Interest
OSD Non-Lethal Roadmap

• Functional Working Groups
  – JCIDS Evaluation
  – Policy
  – Legal & Treaty / Agreement / Convention Compliance
  – Family of Systems / System of Systems
  – Enabling Technologies
  – Test & Evaluation
  – Interagency (DoJ, DoS, DHS, etc…)
  – Legislative / Public Affairs
  – International Engagements
Industry Proposals

- BAA M67854-05-R-5009

- NL Science & Technology Applied Research & Technology Development Efforts

- www.marcorsyscom.usmc.mil
  - Business Opportunities
  - Opportunities
  - Non-Lethal