

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



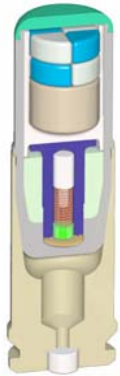
Personnel Halting and Stimulation Response



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



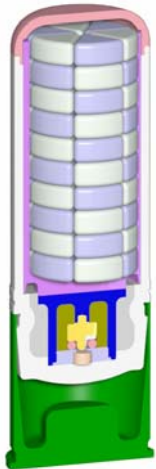
Potential Payloads:

- Kinetic energy blunt impact
- 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**