JNLWP Update to the Joint Service Small Arms Symposium

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8 May 07

Distribution Statement A – Approved for Public Release
Service Requirements

1. Stop / Disable / Impede Vehicles / Vessels
2. Crowd Dispersal / Temporarily Incapacitate Individuals
   - On Land or In the Water @ 300 Meters
3. Clear Facilities With and Without Entering
4. Deny Area / Deny Access
5. Determine Intent
Recommendations

Focus on the Payload, Not the Launching Platform
Range Similar to Small Arms Lethal Ammunition
Fire From Existing Platforms
Increasing Focus on MOUT Operations / Requirement’s
Service Desires for “Scaleable” Weapons
Increase NLW/C Education / Training
  Get NLW/C Into Senior Level PME
    Officer and NCO Curriculums
Include in Escalation of Force (EoF) Training / Orders
More MTT’s for Deploying Forces
JNLWP Small Arms Interface

M79, M203 & XM320

Airburst NL Munitions (USA)

Venom

Mission Payload Module (USMC)

66mm VL NLG’s

FN-303 Projectile Launcher (USA)

Washable Paint

Permanent Paint

CS-type 1

Joint NL Warning Munitions (USN)

X26 Taser ® (USA)
Joint Integration Program (JIP)

Description:
A Forum established to Coordinate a Comprehensive Program that Maintains State-of-the-Art NLCS for each Service through Product Demonstrations, Sharing Lessons Learned and Evaluating COTS Products for Potential Inclusion into Service NLCSs.

Accomplishments since the Last JCIG Meeting:
- Last Semi-Annual JIP Meeting @ Ft. Irwin, CA (Jan 07)
- Next Meeting – 26-27 Sep @ NSWC Crane, IN
- AFOTEC Taser / OC Spray Evaluation Report is Complete

FY07 Projects:
- Evaluate Re-usable 40mm Training Rounds (USA)
- Evaluate Portable Entanglement Device (USCG)
- Launch cup w/ Adapters for two Shotguns and User Evaluation (USAF)

Future Activities:
- Finalize Charter & MOA (JCIG Signatures Required)
- Dates for Next Semi-Annual Meeting (June-Aug 2007 @ NSWC Crane, IN)

JNLWD Lead, USMC, USA, USN, USCG, USAF Voters and SOCOM Interest

Funding – FY07 - $800K, FY08-FY13 - $800K / Year (Proposed)

Industry Contact – Doug Esposito, American Systems
douglas.esposito@americansystems.com
NL Munitions Characterization

Market Survey / Request For Information
Acquire Statistically Significant Quantities
Munitions / Grenade Characterization
Data Reduction
ATBM Run
Report Development
Industry Feedback

POC: Ed Hughes, Penn State University,
elh5@only.arl.psu.edu
Advanced Total Body Model (ATBM)

- ATBM is a JNLWP sponsored finite element based blunt trauma injury prediction model
- Biomechanically based, applicable for NLW impacts and validated against animal and cadaveric data
- Predicts a variety of injuries for the head, neck, thorax, abdomen, skin and extremities
- Includes design optimization and probability of hit modules
- Established projectile characterization process including static and dynamic loading to develop projectile FE model

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JNLWP Education Opportunities

• EDUCATION
  – Pennsylvania State University on-line course: NON-LETHAL WEAPONS: POLICIES, PROCEDURES AND TECHNOLOGIES CERTIFICATE
  – www.fayette.psu.edu/ccps – application form available online
  – JNLWD Point of Contact – LCDR (USN) Cabot Aycock, cabot.aycock@usmc.mil

• WEBSITE – https://www.jnlwp.com
  JNLWD Point of Contact – Elsie Hasting
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