Non Lethal Capabilities Update

NDIA Armament and Munitions Forum
Unconventional and Emerging Armaments Section

November 13, 2013

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Outline

NATO Guidance for Armament Groups

NATO NAAG Restructure

Terms of Reference for Non Lethal Capabilities

NATO Non Lethal Capabilities Progression

Recent Activities
Mission - Main Armament Groups

• NATO Main Armament Group’s Handbook – revised in 2012 and available on DI Portal
  – Foster exchange of Information
  – Promote technical Standardization, Interoperability and Integration
  – Identify and promote Technical advancements
  – Plan/direct/coord subordinate groups
  – Liaise with all relevant organizations
    • Within NATO
    • Outside – EU, NGOs, Industry, etc

Source: LCGDSS Chairman Richter brief Oct 2013
Land Capability Group Dismounted Soldier Systems
Sub Group on Non-Lethal Capabilities

Terms of Reference

- Focal point for all activities related to Non-Lethal Capabilities (NLC) in the NAAG.

- Responsible for NLC across the full spectrum of military operations and operating environments.

- Joint and three-service focus within Nations and CNAD.

- Supports all NATO Essential Operation Capabilities (EOC), in particular
  - “Force Protection” and
  - “Effective Engagement”.

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Near Term Objectives

- New NATO Strategy - “Smart Defense”
- Active Engagement
- Building Capability Through Multinational Approaches
- Connected Forces Initiatives
- Even more Interoperability
- Lessons from Current Operations
NATO Non Lethal Capabilities Progression

- NATO Non Lethal Capabilities initiated under a Quick Reaction Team transitioned to Topical Group 3

- NATO supports
  - NATO’s Research & Organization (RTO), Systems Analysis & Studies Panel support to develop common, interoperability and standardization addressing Non Lethal Capabilities
  - NATO’s Emerging Security Concerns (ESC) Defense Against Terrorism initiates DAT 11 on Non Lethal Capabilities with focus on TRL 7-9 for ISAF
  - NATO NIAG draft proposal awaiting final rev. & release

NIAG NLC

SAS 35
SAS 60
SAS 78
SAS 94
DAT 11
DAT NLC

QRT TG-3
LCG9 – 2011/2012
LCR & POW

STANREC & AEP

SGNLC - 2013
MCR & POW

SGNLC - 2014
NDPP & POW

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NLC Interoperability Recent Activities

Non Lethal Catalogue

STANREC 4729 & AEP 74
Performance of Non-Lethal Land vehicle Arresting Device

Captured vehicle (by vehicle arresting net)

NATO Multi National Approach
Tier II effort highlight

STANREC 4744 & AEP 94
Non Lethal Kinetic Energy Methodology

- Blunt Trauma Experts
- SubGroup 1 – Skin Penetration
- SubGroup 2 – Head Impact
- SubGroup 3 – Chest Impact
- SubGroup 4 – Abdomen Impact
- SubGroup 5 – Accuracy
  - Leveraging US JNLWD Advanced Total Body Model
  - Additional Experts from Soldier CCIEP Group

Defence Against Terrorism Program of Work #11
Non-Lethal Capability

DAT 11 Catalogue
Version – 29 January 2011

DRAFT
High TRL 7-9 for ISAF

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Examples of Non Lethal Multi National Approaches

FN 303®

Lights/Dazzlers

Sponge

Multi Pellets

40 mm

Long Range Acoustic Device

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Non Lethal Capabilities

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