



# Joint Non-Lethal Weapons Program

Fourth Quarter Fiscal Year 2006

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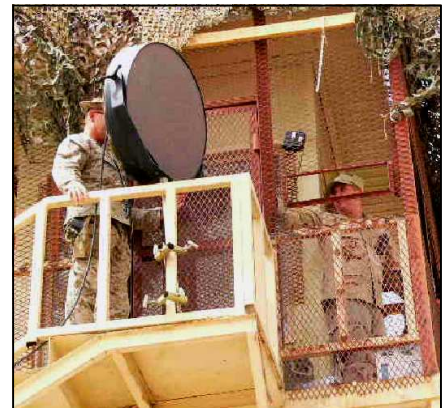
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## JNLWD Team Visits Iraq

The Joint Non-Lethal Weapons Directorate sent a team to Iraq between 28 May and 8 July 2006 to document non-lethal weapons lessons learned to support the Marine Corps Center for Lessons Learned. The team focused on collecting information regarding pre-deployment training, equipment, and operational lessons learned from currently deployed units.

The team contacted twenty-nine units involved in tactical control points, vehicle checkpoints, entry control points, military police operations, enemy detainee operations, mobile assault patrols, dismounted patrols, and forced entries. The team conducted more than 60 interviews at 15 forward operating bases and battle points. The interviewees ranged from turret gunners to commanding officers of battalions and brigades. In all more than 300 surveys were collected.

The information gathered during the trip indicated that hailing devices, such as the Long Range Acoustic Device, have proved very effective at entry control points, vehicle checkpoints, and on guard towers. An increase in non-lethal weapons training will help improve their employment and emergence as an option in the force continuum. Education and awareness efforts such as the on-line non-lethal course hosted by Penn State University (<http://www.fayette.psu.edu/CE/23514.htm>) will allow warfighters to familiarize themselves with non-lethal weapons in support of today's peacekeeping, humanitarian, and military missions.



**Long Range Acoustic Device in use in support of Operation Iraqi Freedom  
Official DoD Photos**

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## The Active Denial System (ADS) Completes its Formal Military Utility Assessment

The Active Denial System (ADS) Advanced Concept Technology Demonstration (ACTD) program successfully completed the third and final phase of its Joint Military Utility Assessment (JMUA) at Eglin Air Force Base, Florida in April 2006. This third phase evaluated ADS in a harbor/maritime environment and included engagements against a variety of open and closed cockpit boats at sea at various ranges. Pier protection scenarios were also evaluated, during which ADS System 1 operated extremely well. Coast Guard personnel comprised the maritime opposing force.

Preparations and training began in late March and culminated with three days of scenario play on 10-12 April. On 11 April, approximately 56 government visitors observed the day's activities. Some also volunteered to participate as subjects during the land-based pier protection scenario and were able to experience the effects of the ADS beam first-hand. Detachment 1 of the Air Force Operational Test and Evaluation Command (AFOTEC) coordinated and conducted the assessment under the management of the ACTD's Operational Manager, U.S. Joint Forces Command (USJFCOM) and Headquarter (HQ) Air Combat Command Security Forces Group. All activities were conducted under human use experimentation protocols approved by the Air Force Surgeon General.



**Joint Military Utility Assessment of the ADS ACTD at Eglin Air Force Base, Florida  
Official DoD Photo**



**The ADS tested in a maritime scenario  
Official DoD Photo**

Phase three of the Joint Military Utility Assessment (JMUA) was preceded by two land-based assessments. The first was held at Creech Air Force Base near Las Vegas, Nevada in August 2005, and the second was held at the McKenna Military Operations on Urban Terrain (MOUT) facility at Fort Benning, Georgia in September 2005. The JMUA events concentrated on assessing the performance of ADS in scenarios involving perimeter protection, checkpoint operations, and maneuver support of urban operations. The ADS ACTD prototype/residual will next enter an Extended User Evaluation (EUE) phase where selected units will be able to train with the system, conduct exercises and demonstrations, and continue to evaluate its day-to-day supportability and reliability factors. The ADS ACTD program is scheduled to continue through September 2007.

## **EUCOM CAPEX Highlights Non-Lethal Weapons Use for Current Missions**

The U.S. European Command (EUCOM) showcased its non-lethal weapons program during a Summit and Capabilities Exercise (CAPEX) held in Stuttgart, Germany, 21-22 June 2006. The CAPEX focused on current and emerging non-lethal weapons systems, as well as tactics, techniques, and procedures for their employment. This was the largest CAPEX of its kind for U.S. Marine Corps Forces Europe, which serves as the European Command's non-lethal weapons executive agent. The CAPEX was attended by 49 officers and staff non-commissioned officers from 24 different countries within the EUCOM area of responsibility. Additionally, each EUCOM Service Component was represented, along with members of the EUCOM staff, U.S.-based Service representatives, individuals from the Joint Non-Lethal Weapons Directorate, non-lethal weapons program managers, and numerous industry representatives.

The initial program, which began the morning of 21 June, included EUCOM and U.S. DoD Non-Lethal Weapons Program updates. EUCOM also presented the analysis used to develop their non-lethal weapons requirement. The Summit guest speaker, COL James Brown, U.S. Army (USA), Commander of the 18<sup>th</sup> Military Police Brigade, gave an outstanding presentation that incorporated his non-lethal weapons experience, both from his previous deployment to Kosovo and his recent deployments to Iraq. All of these presentations were used to set the stage for the afternoon CAPEX, held at a nearby Military Operations on Urban Terrain (MOUT) facility.



**EUCOM CAPEX Training  
Official DoD Photo**

During the CAPEX, a joint force composed of Marines from Marine Corps Security Forces, Rota, Spain, and soldiers from the 1<sup>st</sup> Armored Division, Wiesbaden, Germany, 7<sup>th</sup> Army Joint Multinational Training Command, Grafenwoehr, Germany, and 1<sup>st</sup> of the 10<sup>th</sup> Special Forces Group, Stuttgart, Germany, executed four vignettes created to highlight the types of missions that currently deployed forces encounter. These Marines and soldiers had undergone an intense, five-day non-lethal training package the week prior, where they learned the basic skills required to execute missions using non-lethal force options. Vignettes included landing zone clearing, convoy operations, vehicle checkpoint operations, and personnel checkpoint operations. During each vignette, Marines and soldiers employed non-lethal systems to demonstrate the concept of controlled escalation of force. Systems demonstrated included the Vehicle Lightweight Arresting Device (VLAD), the X-26 TASER® a Human Electro-muscular Incapacitation device, the FN303 Less Lethal Launcher, the Long Range Acoustic Device (LRAD), a green laser optical distractor, the Hellfire Spotlight, and numerous non-lethal munitions.

On 22 June, a follow-up program facilitated discussions focusing on allied and partner nations. Topics included rules of engagement, the force continuum, and how non-lethal weapons can be used to support war-fighters. A panel discussion highlighted lessons learned and discussed current and future employment options for non-lethal weapons. The day concluded at the MOUT facility, where the attendees were given the opportunity to fire the munitions they had seen employed during the demonstration the previous day.

The EUCOM NLW Summit and Capability Exercise was extremely well received, and accomplished its main goals of increasing awareness of non-lethal weapons within the EUCOM area of responsibility, while enhancing interoperability and operational capabilities through interaction with allied and partner nations, and improving EUCOM's through training and education of a number of its service members.

## JNLWD Welcomes Colonel Kirk Hymes



**Colonel Kirk Hymes**  
**Director,**  
**Joint Non-Lethal Weapons Directorate**

The Joint Non-Lethal Weapons Directorate (JNLWD) welcomed Colonel Kirk Hymes as its new director on 8 September 2006. Col Hymes graduated from the United States Naval Academy and attended the Field Artillery Officer Basic Course at Fort Sill, Oklahoma. He subsequently reported to the 1st Marine Division for duty with 1st Battalion, 11th Marines, where he eventually served with Battery A as a Forward Observer, Liaison Officer, Platoon Commander, and Executive Officer. His career includes an assignment as the Commanding Officer, 3d Battalion, 11th Marines, during which he deployed the battalion to support both Operation Enduring Freedom and Operation Iraqi Freedom. From July 2003 to July 2005, he was assigned to the Expeditionary Force Development Center at the Marine Corps Combat Development Command as the Integration Branch Head and Deputy Director for Operations. Upon graduation from the Industrial College of the Armed Forces, National Defense University, Col Hymes became the JNLWD's fourth Director since its inception in 1997.

## Fort Leonard Wood Hosts Non-Lethal Weapons Symposium



**An NSLS attendee firing**  
**non-lethal rounds**  
**Official DoD Photo**

Members of the Joint Non-lethal Education & Training Center (JNETC), Fort Leonard Wood, Missouri, developed the Non-Lethal Senior Leader Symposium (NSLS) to provide senior military leaders pertinent knowledge and considerations with respect to the implementation of non-lethal (NL) weapons into unit mission planning and execution. A culminating effort between the Joint Non-Lethal Weapons Directorate (JNLWD) and JNETC, the NSLS is the first step in a more robust non-lethal educational program geared towards today's operating forces.

The NSLS originated from a concept program; the Non-Lethal Command & Staff Concept and Pilot Courses were held at Fort Leonard Wood in February and September of 2004 under the auspices of the U.S. Marine Corps Training & Education Command. An in-depth gap analysis and the collection of lessons learned from Operation Enduring Freedom, Operation Iraqi Freedom, and the Global War on Terrorism, in conjunction with state of the art information gathering resources, allowed the JNLWD and the JNETC to host the first two-day NSLS in June of 2006 at Fort Leonard Wood.

The symposium hosted O4, E7, and GS12 and higher level personnel in command, staff, and program manager billets. The event covered topics such as non-lethal weapons human effects and employment considerations, and provided background on the JNLWP itself. Two keynote speakers, LtCol Mark Coast, USMC, and Maj Steve Ijames, Springfield, MO police force, presented well-received briefs covering their experiences using non-lethal weapons in operational environments. The attendees also fired a number of non-lethal weapons, including the X-26 TASER®, the FN 303 Less Lethal Launcher, stingball grenades, and bean bag rounds. Organizers disseminated an attendee survey in which one hundred percent of the respondents stated that they would recommend the symposium to other personnel from their command or organization.

## Fort Leonard Wood Hosts Non-Lethal Weapons Symposium (Cont.)

While still in its infancy, the NSLS has proved a vital and viable option for today's senior military and civilian leaders ready to step beyond traditional warfare. The NSLS is expected to take place at least twice each year at Fort Leonard Wood and possibly other locations in the future. With a target audience of O4 and above for officers, E7 and above for enlisted, and GS12 and above for civilians, this education program bridges the gap between flag level awareness and operational realization. Additionally, each NSLS is focused to meet the needs of its attendees, to include briefing topics, key note speakers, and selected live fire familiarization. For more information contact Mr. Tim Minarik, at (573) 596-4356 or [tim.minarik@us.army.mil](mailto:tim.minarik@us.army.mil)



**NSLS stingball grenade demonstration  
Official DoD Photo**

## LtGen Natonski Becomes IPT Chairman



**LtGen Richard F. Natonski  
Official DoD Photo**

The Joint Non-Lethal Weapons Directorate welcomed LtGen Richard F. Natonski as the new Deputy Commandant, Plans, Policy, and Operations, Headquarters Marine Corps. LtGen Natonski assumed his new duties on 8 November 2006. He brings a wealth of experience to his new assignment including two previous postings in PP&O, a tour on the Joint Staff, and extensive combat experience.

LtGen Natonski is serving as the Joint Non-Lethal Weapons Integrated Product Team (IPT) Chairman. In this role, he will provide guidance and direction to the Joint Non-Lethal Weapons Program (JNLWP), champion NLWs among his peers and senior leadership, and recommend approval for POM submissions to the Executive Agent.

**UPCOMING EVENTS:**

- ◆ JNLWP Program Reviews - 12-14 December 2006 @ Dumfries VA
- ◆ Directed Energy Conference - 16-18 January 2007 @ Washington, D.C.
- ◆ Directed Energy Weapons 2007 - 28 February - 1 March 2007 @ London, U.K.

For more information about these events contact the Webmaster: <https://www.jnlwp.com>



## Joint Non-Lethal Weapons Program

*Today's complex missions highlight the need to equip our troops with non-lethal weapons.*