

#### UNITED STATES MARINE CORPS MARINE CORPS SYSTEM COMMAND 2200 LESTER STREET QUANTICO, VIRGINIA 22134-5010

5720 LAWQ 037F-02 29 Sep 03

The Sunshine Project

Attn: Mr. Edward H. Hammond III 101 West 6<sup>th</sup> Street, Suite 607

Austin, TX 78701

Re: Freedom of Information Act (FOIA) Control Number 037F-02

Dear Mr. Hammond:

This responds to your Freedom of Information Act (FOIA) request of June 21, 2002, which requests a copy of "the entire briefing by the Joint Non-Lethal Weapons Program and provided to airline industry officials cited in the an Air Safety Week article."

The requested documents are enclosed. Fees associated with your request are minimal and waived

If you believe an adequate search for responsive records was not accomplished, you may file an appeal with the Assistant to the General Counsel (FOIA), General Counsel, Department of the Navy, 720 Kennon Street, S.E., Room 214, Washington, D.C. 20374-5012. For consideration, the appeal must be received in that office within 60 calendar days from the postmark of this letter's envelope. Attach a copy of this letter and a statement regarding why you believe an adequate search was not conducted. We recommend that both the letter of appeal and the envelope bear the notation "Freedom of Information Act Appeal." Please provide a copy of any such appeal letter to MARCORSYSCOM (Attn: LAW), 2200 Lester Street, Suite 120, Quantico, Virginia 22134-5010.

Should you desire additional information pertaining to this matter, please contact Mrs. Bobbie Cave at (703) 432-3934.

BENNETT

Counsel

# The U.S. Department of Defense Joint Non-Lethal Weapons Program



Presentation for Airline Pilot Association October 2001

#### **Col George Fenton**

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# Purpose

- Present JNLW Program Overview
- Introduce initial thoughts for use of nonlethal technologies on commercial aircraft









From this....

Why Non-Lethals?

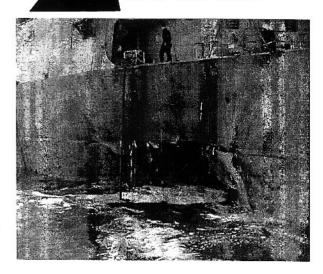
### Why the Marine Corps?

• Somalia... a call for NLWs

- General Zinni's Congressional Testimony
- CMC's willingness to serve as Exec Agent
- Understanding the battlespace...air, land, sea

From Rubber bullets... to Directed Energy







### DoD NLW Definition

Weapons that are explicitly designed and primarily employed so as to *incapacitate personnel or materiel*, while *minimizing fatalities*, permanent injury to personnel, and *undesired damage* to property and the environment.



### Non-Lethal Weapons Core Capabilities

### **Counter-personnel**

- > Crowd Control
- > Incapacitate Individuals
- > Deny Area to Personnel
- > Clear Facilities/Structures/Areas



### **Counter-materiel**

- > Area Denial to Vehicles (land, sea, and/or airspace)
- ➤ Disable/Neutralize Vehicles, Vessels, Aircraft, & Equip

### Counter-capability

- **➤** Disable/Neutralize Facilities & Systems
- **▶** Deny Use of Weapons of Mass Destruction

Complementary, not core

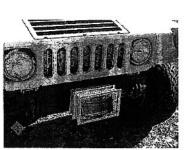


### **Acquisition Programs**

Modular Crowd Control Munition (MCCM) & Vehicle Mount System (VMS)



IN PRODUCTION



**ARCHIVED** 

**Portable Vehicle Arresting Barrier (PVAB)** 

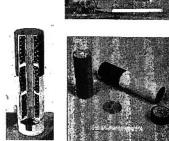


IN PRODUCTION

66mm Vehicle Launched NL Grenades (VL NLG's)



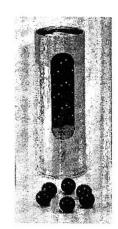
**Production 1Q FY02** 



40mm Non-Lethal Crowd Dispersal Cartridge (NLCDC)



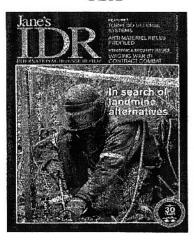
IN PRODUCTION



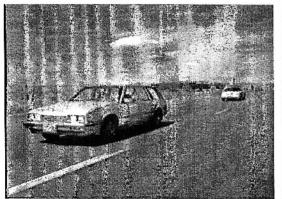


### **Concept Exploration Programs**

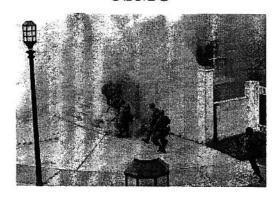
Area Denial to Personnel (AD-P) USA



Area Denial to Vehicles (AD-V)
USA



Clear Facilities (CFAC) USMC



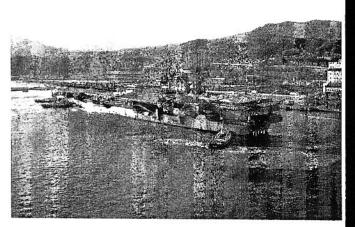
Incapacitate Personnel (INCAP) USMC



Crowd Control (CC) USA



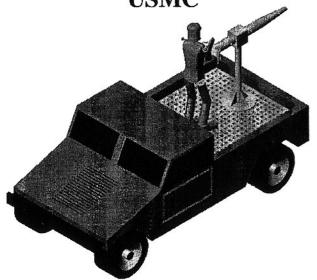
Area Denial to Boats (AD-B) USN





# Component Advanced Development (CAD) Efforts

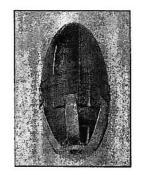
# Anti-Traction Material (ATM) USMC

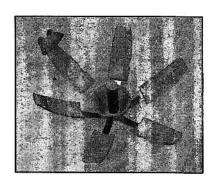




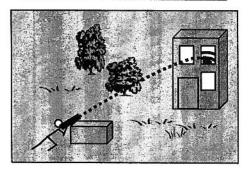


## Clear Space Device (CSD) USMC





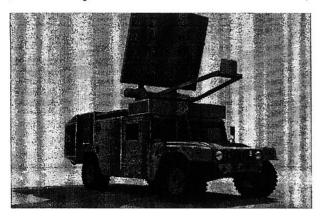




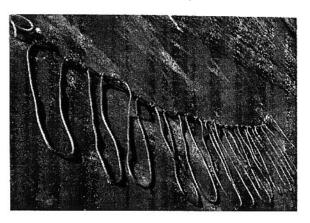


### Pre-Milestone A Programs

Active Denial System (ADS) (formerly Vehicle Mounted ADS)



Running Gear Entanglement System



Pulsed Energy Projectile

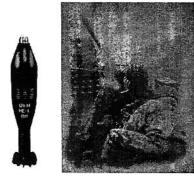


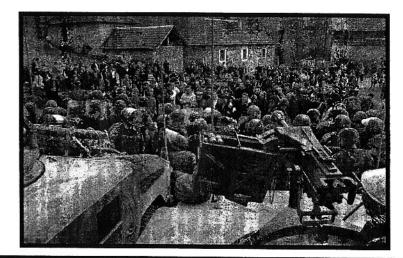
40mm Mk 19 NL Munition

Objective Individual Combat Weapon NL Rounds



**NL Mortar Munition** 







# Purpose

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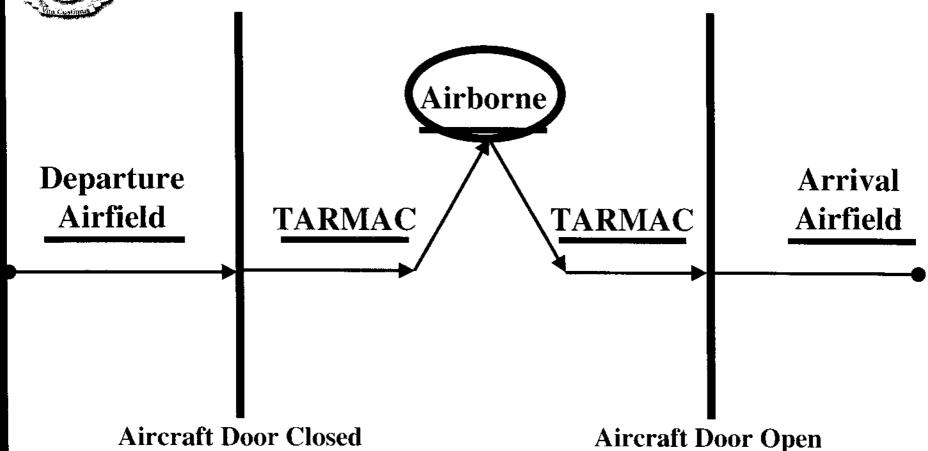


# Technology Availability

- Near Term: (Predominately available off the shelf)
  - Riot Control Agents; Pepper Spray
  - Slippery Agents
  - Tasers; Stun Guns
  - Obscurants; Malodorants
  - Entanglements
  - Dazzlers
  - Audible Acoustics; Sirens
- Mid Term: (3 years +)
  - Calmative / Sleep Agents



### **Initial Thoughts Focused on Airborne Applications**



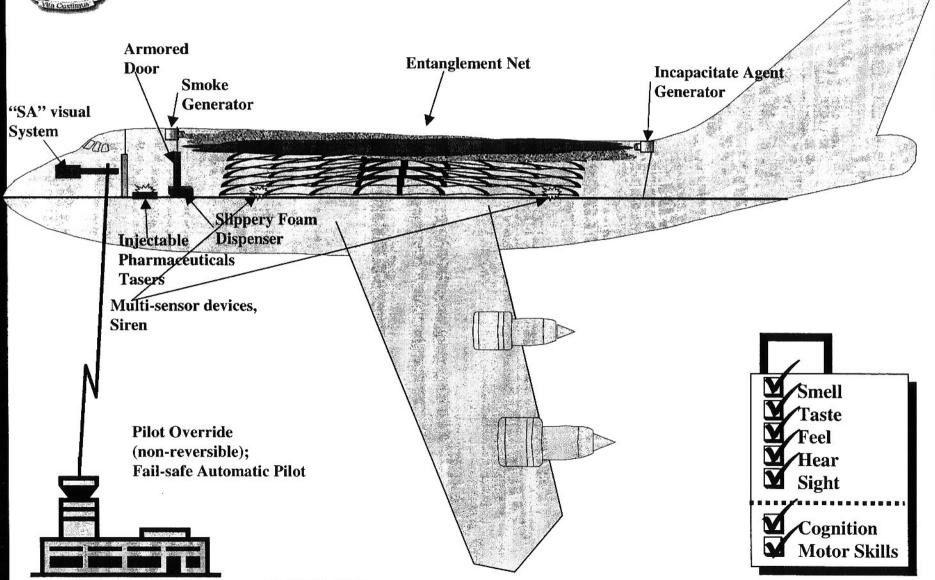
**Aircraft Door Closed** 

At the terminal

- Facilities Personnel Information
- •Procedures
- Equipment



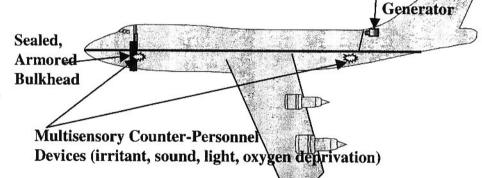
## Non-Lethal Technology Concepts





### Conceptual Passenger Immobilization System

- Pilot Activated System
- •Provides incapacitation of all individuals in passenger compartment
- •Crew is protected by sealed bulkhead and separate onboard oxygen system
- Benefits
  - •Effects can be tailored
    - Physiological effect (paralysis, sleep)
    - Duration of effect (minutes to hours)
  - Human effects data exists
    - •Pharmaceutical Industry
    - Front End Analysis



### •Risks/Costs

- •Chemical incapacitants/immobilizers not instantaneous
  - •Time to effect ~ 60 seconds through inhalation
    - •Multisensory devices provide surprise, sensory overload, irritation
  - •Risk of permanent injury/death to the infirm
  - •Some small risk that a few will not be totally incapacitated (although they will be greatly impaired)
  - Necessitates policy / legal review



# Summary

- Non-lethal technologies have significant potential for use in emergency situations on commercial aircraft
- Many technologies already exist
  - Aircraft integration and means of deployment need additional evaluation
  - May necessitate policy / legal review
- The future holds promise for advanced non-lethal technologies including calmatives and directed energy