

UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 03
PROGRAM ELEMENT: 0603651M
PROGRAM ELEMENT TITLE: JOINT NON-LETHAL WEAPONS PROGRAM
COST: (Dollars in Thousands)

| Project & Title | FY 2004 Actual | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate |
|--------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| C3022 Joint Non-Lethal Weapons | | | | | | | | |
| C3022 | 0 | 5,809 | 2,394 | 1,397 | 10,791 | 10,807 | 11,024 | 11,246 |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This Program Element (PE) covers the applied research and development of next-generation Non-Lethal Weapons (NLWs) and includes performing analysis, technical development efforts, and modeling and simulation necessary to ensure optimum weaponizing and use of these NLWs. Next-generation NLW systems focus on long-range localized NL effects to identified threat individuals (or groups of individuals) and/or their threat weapons systems operating in complicated environments such as urban areas, crowds, building, vehicles, boats and also in close proximity to high-value civilian establishments. This effort was funded under PE 0603114N, Power Projection Advanced Technology. Because the Marine Corps is the Executive Agent for the Joint Non-Lethal Weapons Program , a distinct program element was established to properly reflect this designation.

PROGRAM CHANGE SUMMARY:

| | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> |
|---------------------------------------|----------------|----------------|----------------|----------------|
| FY 2005 President's Budget Submission | 0 | 0 | 0 | 0 |
| PBD-702 Adjustment | 0 | 5809 | 2394 | 1397 |
| FY 2006/2007 President's Submission | 0 | 5809 | 2394 | 1397 |

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

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ACCOMPLISHMENTS/PLANNED PROGRAM:

FY 2005 Plans:

- Initiate program to conduct feasibility assessments and demonstrations of promising non-lethal technologies and system concepts. Initial efforts will assess the general utility, effect, and effectiveness of technologies for incapacitating personnel, clearing facilities, stopping vehicles and vessels, and denying enemy access to protected areas.
- Explore design and fabrication of a man-transportable laser weapons system that can be used for non-lethal counter-personnel or non-lethal counter-material applications through ultra-high precision engagement of selected targets with minimal collateral damage.

FY 2006 Plans:

- Research to define the optimum approaches, technologies and tactics necessary to clear a facility/building with and without entry. The goal is to develop the next generation clear-a-space device or system that can effectively incapacitate or force evacuation of a facility with minimal collateral effects or injury to occupants and delivered to the target(s) at range.
- Investigate and develop a system or capability suitable for long-range, non-lethal vehicle or vessel stopping with reversible effects, and minimal collateral effects. The technology will be suitable for applications in complex operational environments such as within crowds, within urban environments, within buildings and vehicles, for non-lethal precision strike (extended duration incapacitation/treat neutralization), and for joint force protection applications.

FY 2007 Plans:

- Research the complex relationships between individual, group and crowd dynamics to understanding the macro effects of NLWs. Specifically, investigate factors that cause crowds to move to violent behavior, and what non-lethal technologies will be effective in controlling or mitigating violent crowd behavior. Research to develop advanced non-lethal stimuli models to predict and assess potential injuries based on a broad set of potential new non-lethal stimuli and to also assess the effectiveness of these new non-lethal weapons.

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C. OTHER PROGRAM FUNDING SUMMARY:

NAVY RELATED RDT&E:

PE 0603851M (Marine Corps Non-Lethal Warfare)

D. ACQUISITION STRATEGY:

Not applicable.