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Description of document: **Minutes from United States Marine Corps (USMC) Joint Non-Lethal Weapons Directorate Non-Lethal Weapons Joint Concepts and Requirements Group (NLW JCRG) 97-02 Meeting, 3 September 1997**

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This responds to your Freedom of Information Act (FOIA) request dated October 6, 2007, for a copy of "Minutes from NLW JCRG 97-02 Mtg 3 Sept 1997."

The requested document is enclosed.

Fees will be assessed upon completion of the last document processed under your October 6, 2007 request.

Any questions concerning this matter should be directed to Mrs. Bobbie Cave at (703) 432-3934 or bobbie.cave@usmc.mil.


J. B. BENNETT
Counsel



UNITED STATES MARINE CORPS
 JOINT NON-LETHAL WEAPONS DIRECTORATE
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5000
 NLWD 97-30
 8 Sep 97

From: Joint Non-Lethal Weapons Directorate
 To: Distribution List

Subj: MINUTES FROM NON-LETHAL WEAPONS JOINT CONCEPTS AND
 REQUIREMENTS GROUP (NLW JCRG) 97-02 MEETING ON 3 SEPTEMBER 1997

Encl: (1) Summary of Taskings and List of Attendees
 (2) JCRG Briefing Slides

1. The principals from the Non-Lethal Weapons Joint Concept and Requirements Group (NLW JCRG) met at the Headquarters Building, Marine Corps Combat Development Command, Quantico, Virginia, on 3 September 1997. MajGen. Patrick G. Howard, USMC, (Chairman, JCRG) and BGen. Robert T. Clark, US Army (Deputy Chairman, JCRG), along with the others listed at Enclosure (1) attended.

2. The purpose of the meeting was to review the status of the Joint NLW efforts since the last JCRG meeting and to gain the JCRG principal's concurrence with:

- a. the funding plan for the FY98/FY99 Technology Investment Program (TIP) and
- b. the Joint NLW POM Working Group's (PWG's) recommendation for POM-00.

This JCRG meeting was a prelude to a Joint Acquisition Group meeting on 5 September 1997 and the Joint NLW Integrated Product Team (IPT) meeting to be held on 16 September 1997.

3. Ms. Susan LeVine presented a briefing on the status of Joint NLW program, the results of the Joint Technology-Investment Proposal Review Panel, and the results of the Joint NLW PWG. Her briefing slides are at Enclosure (2). The following summarizes her remarks:

- a. The Joint NLW Program has made significant progress since the last JCRG meeting:
 - * The Joint NLW Directorate has been established
 - * The Joint NLW Concept is ready for the NLW Executive Agent's signature
 - * The Joint NLW Master Plan is in "working-level" staffing
 - * Progress is being made on Joint ORDs (and in line with the Concept-Based Requirements System (CBRS))
 - * The Joint TIP and the Joint NLW PWG met and prepared recommendations

b. Before presenting the recommendations of the TIP and the NLW PWG, Ms. LeVine opened the floor for general discussion on her briefing:

1) Mr. Charles Swett, OSD, asked if any of the Joint NLW ORDs had been signed. Ms. LeVine indicated that none have been signed but that the ORD for the 66mm Vehicle Launched Payloads program would consist of a change to the Army's existing ORD for the Light Vehicle Obscurant/Smoke System (LVOSS) which is currently in staffing.

2) MajGen. Howard, Capt. Bob Rieve, and Mr. Walt Streiter led a general discussion on the Joint staffing process for the ORDs. Capt. Rieve opined that there was not an approved Joint ORD staffing process other than the process for those ORDs going to the Joint Requirements Oversight Council (JROC) and that, due to the relatively low cost of the NLW programs, he doubted that the JROC and its staffing/signature process was appropriate for NLW ORDs. Each Service representative indicated that they had experience in gaining concurrences from the other Services on Service programs where there was Joint interest, but that additional work needed to be done to clarify the overall Joint NLW ORD staffing process, particularly in defining the role and responsibility envisioned for the NLW EA. Ms. LeVine accepted this comment as a tasking for the NLW Directorate.

4. Ms. LeVine then presented the results of the Joint NLW TIP and the Joint NLW PWG for the JCRG's approval. Those briefing slides are also included as part of Enclosure (2). The following summarizes her remarks:

a. **FY98 Technology Investment Program.** "*Technology Investment*" is one of the five major funding categories for the Joint NLW Program. While the TIP is intended to solicit input from government laboratories, civilian industry, and academia, because of time constraints for FY98 funding, the call for proposals for FY98 funding was limited to government laboratories only. Note: the NLW IPT previously approved spending \$750,000 on the TIP for FY98 and \$1,500,000 for FY99.

1) The proposals were reviewed by a panel of Integrated Product Team service representatives and chaired by the Joint NLWD. Of the 63 proposals submitted, three were selected for FY98 and FY99 funding.

Proposal	FY98	FY99	Developer
Spider Fiber Entangler	\$74K	\$223K	NSWCDD
NL EM Pulser	\$200K	\$200K	NRL
Odorous Substances	\$135K	\$175K	ERDEC
TOTAL	\$410K	\$598K	
Excess	\$340K	\$902K	

2) The JCRG members concurred with the selection of the three proposals and, after discussion on possible options for allocating the excess TIP funding, decided to recommend approving \$50,000 for drafting a Broad Area Announcement (BAA) to industry for additional proposals. Ms. LeVine expressed the NLW Director's concern over obligation and expenditure of the FY98 funds if the remaining \$290,000 was held until late in the fiscal year. Three options (contained in briefing slides) were discussed. During discussions, sufficient interest in pursuing work in the NL Layered Defense for Force Protection and the Long range delivery of NL payloads led the JCRG members to recommend to the JAG that the remaining \$290,000 be held until the results of the BAA were available. If the JAG felt it was necessary to commit these funds at this time, the JCRG members agree that funding experiments at the two battlelabs (focused on long range/layered defense, possibly with UGVs and/or mortars) was the preferred option, with further definition to be provided by the battlelabs on these experiments.

3) **Decisions** . To summarize, the following decisions were made by the JCRG on the Technology Investment Program:

- a) Approve funding for the three proposals selected by the TIP.
- b) Approve funding \$50,000 to draft BAAs to industry for NL Layered Defense for Force Protection and Long Range Delivery of NL Payloads.
- c) Hold the remaining \$290,000 until results of BAA are evaluated. Fall-back position is to provide funds to the two battlelabs.

b. **Joint NLW POM-00**. Ms. LeVine informed the JCRG principals that the Joint NLW PWG developed the Joint NLW POM-00 based on the annual funding levels contained in PBD 719 (escalated by 2.4% inflation for FY04 and FY05) built around seven areas:

- * EA/Directorate Support
- * Service Project Management Support
- * Modeling & Simulation
- * Experimentation
- * Technology Investment
- * Service Tech Base & Acquisition Programs (12 programs)
- * New Initiatives (5 programs)

1) A detailed funding breakout by program/by fiscal year was presented to the JCRG principals. In addition, Ms. LeVine provided two pie charts showing the relative percentages of funding to each of the seven general areas and the breakout of programs within the Technology Base area. See briefing charts at Enclosure (2).

2) **Decision**. All Services concurred with the proposed Joint NLW POM-00.

6. **Taskings**. See Enclosure (3).

7. **Other topics.** MajGen Howard called for other discussion items. There were none so the meeting was adjourned.



SUSAN LEVINE

Director, Non-Lethal Coordination Cell

Distribution:

All Attendees

OSD (A&T) Office of Munitions

HQDA DAMO-FD

ARDEC

NSWCDD

Phillips Laboratory

Armstrong Laboratory

SUMMARY OF TASKINGS

1. MajGen Howard tasked the NLW Director to continue to work on defining the process for staffing and approving of Joint NLW ORDs.

LIST OF ATTENDEES

Marine Corps

MajGen Patrick G. Howard, DCG MCCDC
Col James P. O'Donnell, Head Requirements Division, MCCDC
Maj James E. Budway, MCCDC, Req Div

Army

BG Robert T. Clark, HQ TRADOC, Ft. Monroe, VA
Mr. Walt Strieter, HQ TRADOC, Ft. Monroe, VA
Mr. Sam Schiro, USAIC CDS, Ft. Benning, GA

Navy

Capt. Robert Rieve, USN, Expeditionary Warfare Division, CNO (OPNAV N851)
Mr. Kelly Donegon, CNO (OPNAV N851)
LtCol. Don House, Office of Program Appraisal, (SecNav OPA)

Air Force

Col Dennis D. Miner, HQ USAF/XORBP
Maj Buzz Sawyer, HQ USAF/XORBP

Special Operations Command

LtCol Joe Tyner, USAF, USSOCOM, SOJ5-0

USACOM

Maj A. Taylor, USACOM, J3

Joint Non-Lethal Weapons Directorate

Mr. Terry Wright, Deputy Director, Joint NLW Directorate
Ms. Susan LeVine, Head, Joint NLW Program Coordination Cell
Mr. Kevin Stull, Joint NLW Program Coordination Cell

Office of the Secretary of Defense

Mr. Charles Swett, SOLIC (Policy)

Enclosure (1)



Joint Concepts Requirements Group Meeting

3 Sept 97

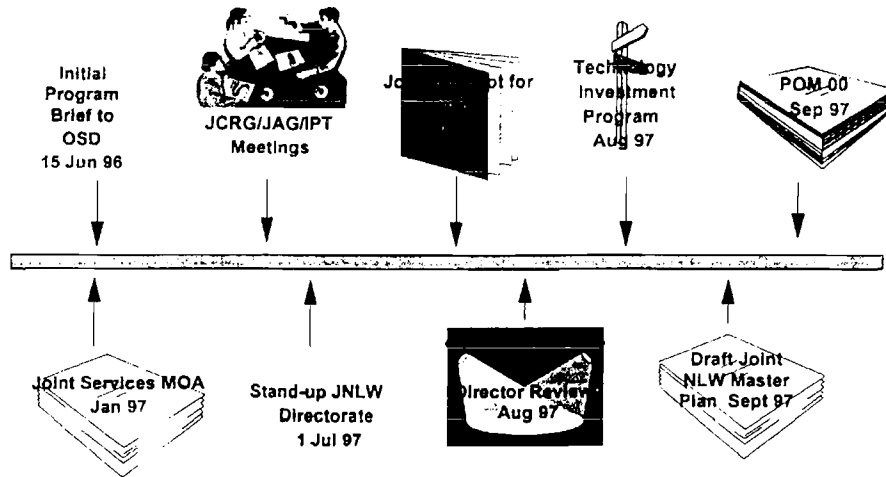
Agenda



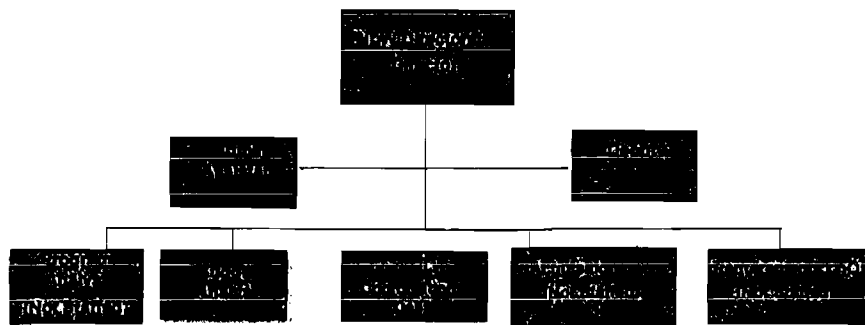
- Directorate Update
- Program Update
 - ▶ FY 97 Highlights
 - ▶ FY 98 Plans
- Documentation Update
 - ▶ Master Plan
 - ▶ ORDs
- Technology Investment Program Recommendations
- POM-00 Content

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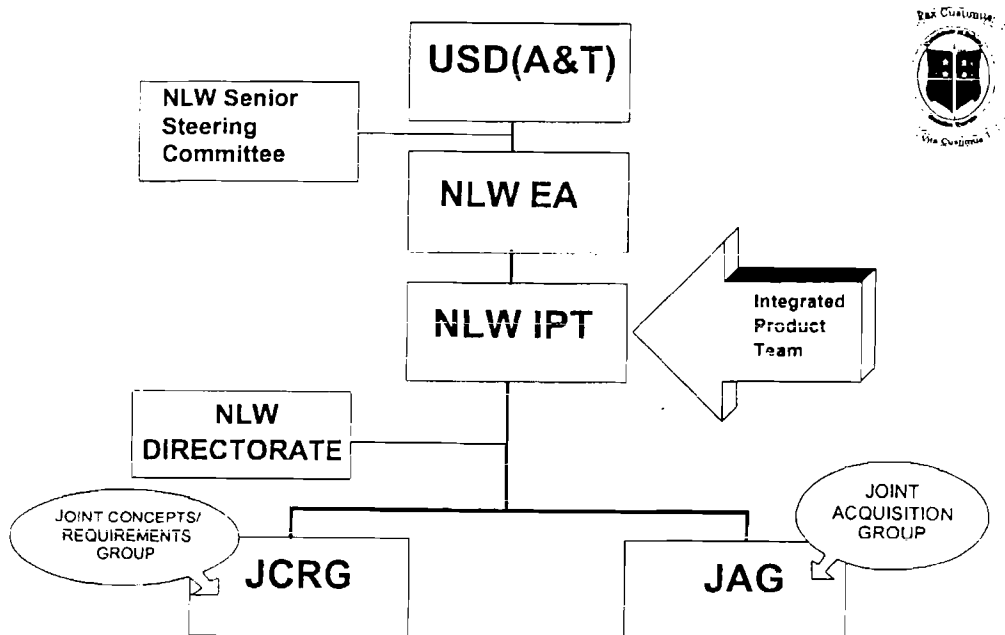
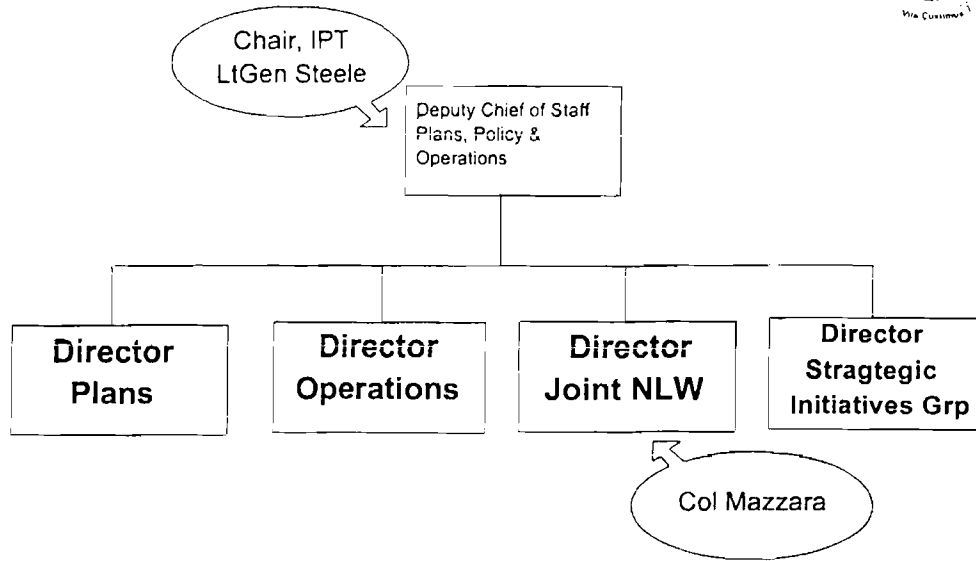
Course & Speed



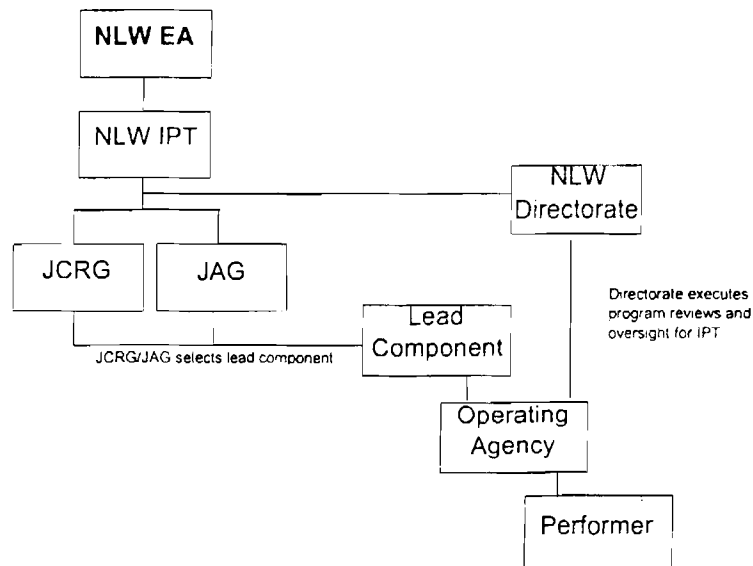
The Joint NLW Directorate



USMC as Executive Agent



NLW Management Structure



NLW Organizational Structure

Directorate Responsibilities



- Perform day-to-day Activities for EA
- Manage Joint Funding Lines
- Liaison w/DoD, OGAs, and foreign governments
- Publish Master Plan
- Assist in POM Development
- Monitor Execution of DoD NLW Program
- Monitor Service-unique Programs
- Promote Exchange among Services

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FY97 Program Highlights



- Directorate Standup
- Kick-off of Technology Investment Program
- User's Conferences
 - Foams
 - Ground Vehicle Stoppers (10-11Sept)
- Service War College Projects
- Website
- POM-00 Development

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FY98/99 Program Budget



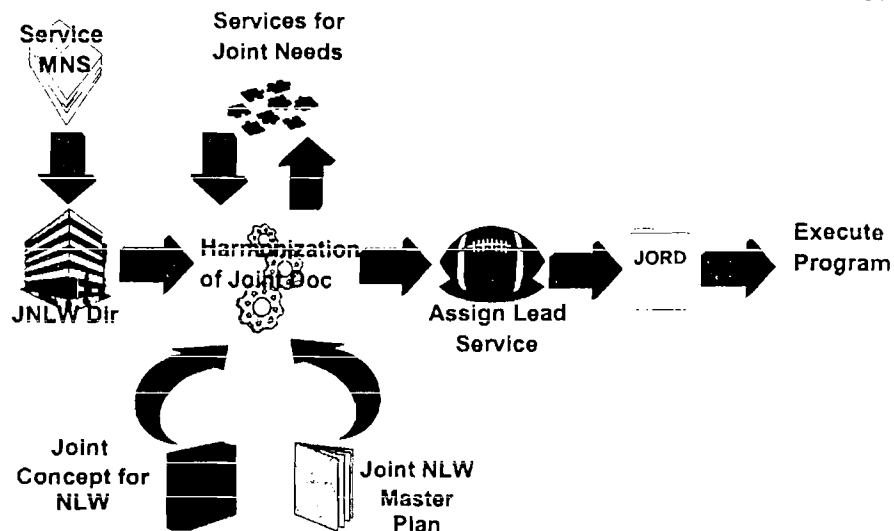
Activity	FY98	FY99
Directorate	964	964
Experimentation	1000	1400
Modeling & Simulation	1100	1540
Technology Investment	750	1500
Service RDT&E Programs	12993	18111
TOTAL	16807	23515

FY98 / 99 Service Program List



JCRG Priority	Project Title	FY98	FY99	Developer
1	NL Crowd Dispersal(M203)	605	670	ARDEC
2	Acoustic Bio-Effects	1010	1730	ARDEC (with Armstrong Labs)
3	MCCM (NL Claymore)	1130	0	ARDEC
4	Stoppers			
	a. Ground	1050	1200	ARDEC (with ARL)
	b. Maritime	1050	1200	NSWCDD
5	Speed Bump (Net)	1000	1700	ARDEC
6	Active Denial Technology	2100	5263	Phillips Lab
7	66mm Vehicle Launched Payloads	640	600	ARDEC (with ERDEC)
8	JAV NL Payloads	600	1100	NSWCDD
9	Bounding NL Munition	950	1600	ARDEC
10	Canister Launched Area Denial System (CLADs)	1260	1000	ARDEC
11	Foam Applications	300	198	ARDEC (with ERDEC)
12	Acoustic Generators	500	700	ARDEC
13	Vortex Ring Gun	458	500	ARDEC (with ARL)
14	Under Barrel Tactical Payload Delivery System	340	650	ARDEC
	TOTAL	12993	18111	

CONCEPT-BASED REQUIREMENTS PROCESS





"Guiding Principles"

- ★ Leverage High Technology
- ★ Enhance Operations
- ★ Augment Deadly (Lethal) Force
- ★ Provide Rheostatic Capability
- ★ Focus on Tactical Applications
- ★ Expeditionary
- ★ Acceptable
- ★ Reversible Effects

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The Joint NLW Concept "Core Capabilities"

- **Counter-Personnel**
 - Crowd Control
 - Incapacitate Individuals
 - Deny Access
 - Clear Facilities/Structures
- **Counter-Materiel**
 - Area Denial (land, sea and/or air space)
 - Disable/Neutralize Equipment or Facilities

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Documentation Update



- ✓ Joint NLW Concept
 - ✓ Ready for EA Signature

- ✓ Joint NLW Master Plan
 - ✓ In Working Level Staffing

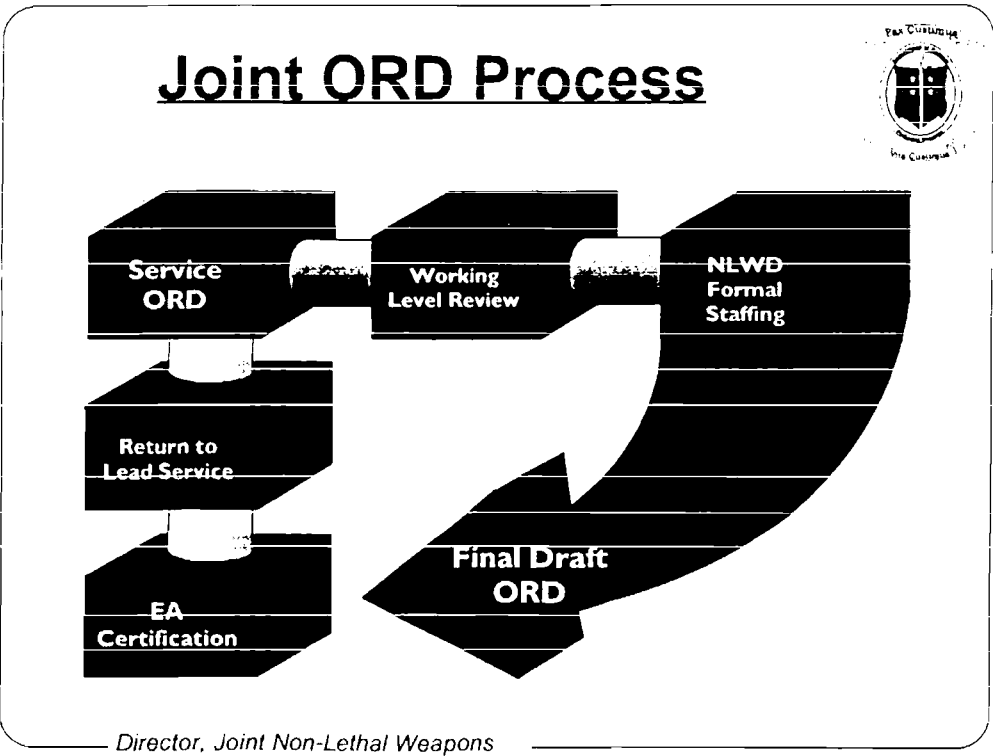
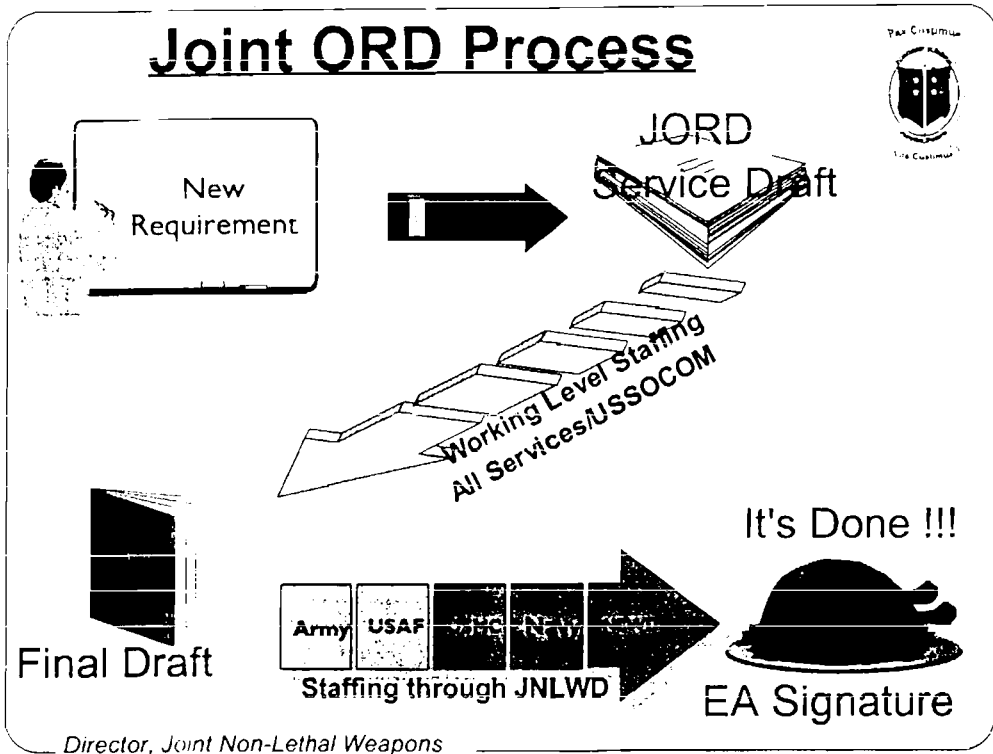
- ✓ Joint Operational Requirement Documents

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JORD Status



JCRG Priority	Program Title	Lead Service (ORD only)	Comments
1	NLCrowd Dispersal	USA	ORD in progress: due 1 QFY98
2	Acoustic Bio-Effects	N/A	
3	MCCM	USA	ORD in progress
4	Stoppers		
	a. Ground	USMC	ORD in progress
	b. Maritime	USN	ORD in progress
5	Speed Bump (Net)	USA	ORD in progress
6	Active Denial Technology	USMC	ORD in progress
7	66mm Vehicle Launched Payloads	USA	Mod to Existing ORD
8	UAV NL Payloads	USN	ORD in progress
9	Bounding NL Munition	USA	ORD in progress
10	CLADs	USA	ORD in progress
11	Foam Application	USA/USMC	ORD in progress
12	Acoustic Generators	N/A	Too early for ORD
13	Vortex Ring Gun	USA	Too early for ORD
14	Under Barrel Tactical Payload Delivery System	USA	ORD in progress



Technology Investment Program



- **Objective:**
 - ▶ Stimulate government laboratories, industry, and academia in generating new technology solutions to meet current or future nonlethal mission needs and requirements
- **Approved funding (per IPT 97-3)**
 - ▶ FY98: 750K
 - ▶ FY99: 1500K
- **Process:**
 - ▶ Call for Proposals
- **Joint Service Review Panel makes recommendations for JCRG/JAG approval**

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Technology Investment Recommendations



- **63 Proposals Received**
- **Joint Service Review Panel**
 - USMC: Mr. Larry Willard (MCCDC) - USN: CAPT Rieve (N851)
 - USAF: Capt Marchessault (SAF/AQPS) - USA: Mr. Schiros (DBBL)
 - USSOCOM: Mr. Randy Murphy (SOAC)
- **Panel Recommendations**
 - **Fund the following proposals:**

Proposal	FY98	FY99	Developer
Spider Fiber Entangler	75	223	NSWCDD
NL EM Pulser	200	200	NRL
Odorous Substances	135	175	ERDEC
TOTAL	410	598	
Excess	340	902	

JCRG DECISION REQUEST



■ Approval For Funding 3 Technology Investment Proposals:

- ▶ USMC Concur Nonconcur
- ▶ USA Concur Nonconcur
- ▶ USAF Concur Nonconcur
- ▶ USN Concur Nonconcur
- ▶ USSOCOM Concur Nonconcur

Residual Recommendations



- Of \$340K remaining:
 - ▶ Use \$50K of FY98 Funds to thoroughly define and draft BAA requirements for potential FY99 funding
 - NL Layered Defense for Force Protection
 - Long range delivery of NL payloads
- Use remaining \$290K of FY98 funds for one of the following proposals:

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Tech Investment Program



Residual Funds Re-allocation:

- Proposal A - Fund AMC under USMC lead for a specifically focused project to develop a NLW APL Alternative (NAAPL)
- Proposal B - Fund a joint Army/USMC effort to enhance/sustain NLW sets
- Proposal C - Fund experiments at both labs for next two TIP projects

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Joint NLW POM-00

Joint NLW POM-00



- USD(A&T) Directed USMC to establish an "M" line for Joint NLW RDT&E Funding
- Accordingly, the Joint NLW RDT&E P.E. must be POMed by the USMC
- Joint NLW POM-00 profile must be submitted by 19 Sep 97 to USMC (P&R) for inclusion in USMC POM-00 Core
- A JCRG/JAG POM working group convened 21-22 August to assemble the Joint NLW POM-00 submit
- Completing the Joint NLW POM-00 submission now will allow the Services ample time to work procurement tails, as applicable

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POM-00 Timeline



- 1 Aug Kick-off briefing presented to JCRG/JAG Working Group
- 1-15 Aug Services prepare initial cost/schedule estimates for initiatives
- 12 Aug DC/S P&R Brief on POM-00 Formulation Process
- 18 Aug Service input due
- 21-22 Aug JCRG/JAG POPM Working Group
- 3 Sep JCRG Review
- 5 Sep JAG Review
- 16 Sep IPT briefed on "DRAFT NLW POM-00"
- 19 Sep DC/S PP&O submits "DRAFT NLW POM-00" to DC/S P&R after briefing the NLW EA

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Joint NLW RDT&E Funding Profile



	FY00	FY01	FY02	FY03	FY04	FY05
P.E. 63851M	24681	25289	25896	26503	27139	27790

FY00 - 03: Per PBD 719
FY04-05: 2.4% Inflation Rate

PROPOSED JOINT NLW POM-00



	00	01	02	03	04	05
EA/Directorate Support	993	1012	1037	1063	1090	1117
Project Management Support	200	200	300	300	300	300
Modeling & Simulation	1393	1613	1689	1893	2269	3733
Experimentation	2000	2000	2100	2150	2200	2260
Technology Investment	750	1025	1050	1077	1100	1300
Service Tech Base & Acquisition Programs	17320	16379	15150	15650	18860	17530
New Initiatives	2025	3010	3910	4320	1350	1350
TOTAL	24681	25289	25286	26503	27139	27790

Joint NLW POM-00

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Program List

Program	00	01	02	03	04	05
Nonlethal Crowd Dispersing Round	180					
Ground Vehicle Stoppers	825	525	600	600		
Maritime Vehicle Stoppers	1250	1500	2000	3000	1000	
Active Denial Technology	2560	2650	2930	3130	6930	6330
66mm Systems	1700	1125	1000			
UAV NL Payload Delivery	1000	1000				
Bounding NL Munition	500					
Canister Launched Area Denial System	1550					
Acoustics	4300	6340	7420	7920	10400	10400
Foam Applications	1470	1200	200			
Vortex Ring Gun	1000	1245	1000	1000	500	800
Under Barrel Tactical Payload System	985	794				

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Joint NLW POM-00

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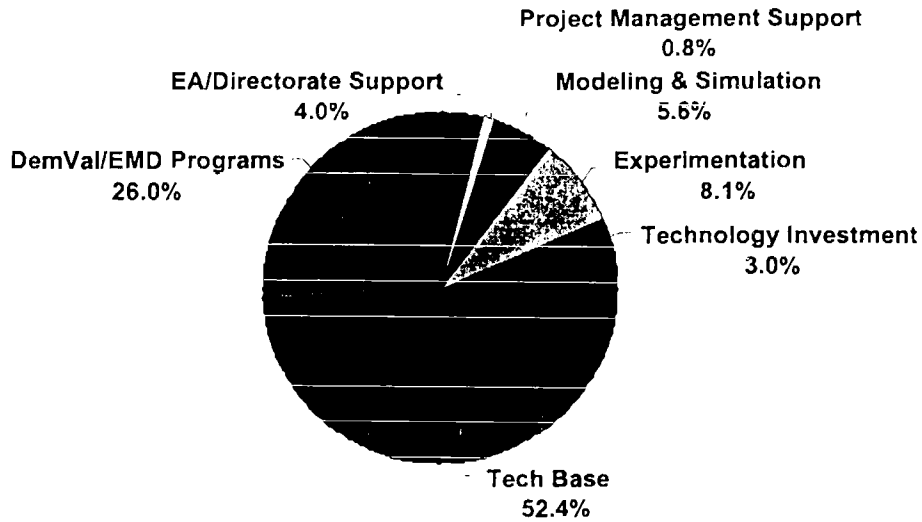


New Initiatives

Program	00	01	02	03	04	05
Improved Capability / Contingency Sets	500	50	50	50	50	50
APLs	475	870	1650	2620		
UGV Payload Integration	0	800	800	500		
Advanced Kinetics	800	820	900	1200	1300	1500
UAV Hovering	250	520	560			

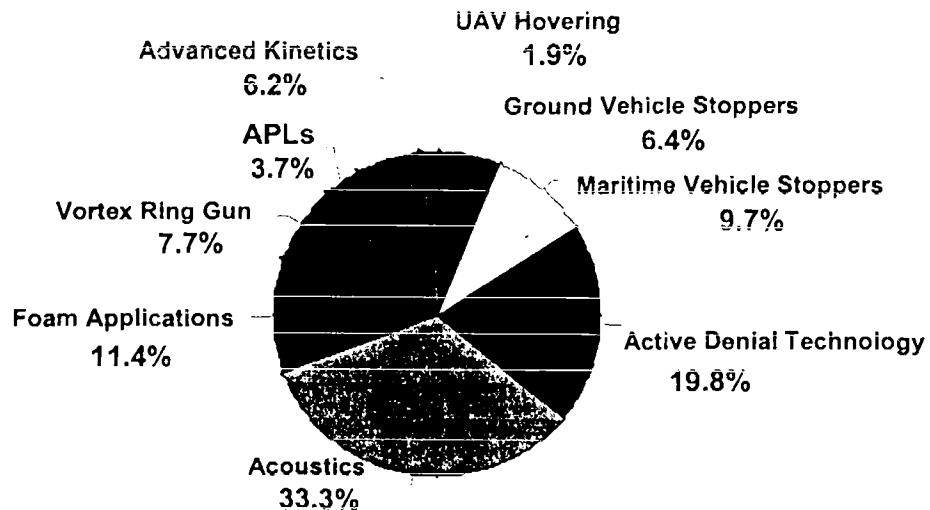
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FY00 Overview



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FY00 Tech Base Breakout



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PROPOSED JOINT NLW POM-00



	00	01	02	03	04	05
EA/Directorate Support	993	1012	1037	1063	1090	1117
Project Management Support	200	200	300	300	300	300
Modeling & Simulation	1393	1613	1689	1893	2269	3733
Experimentation	2000	2000	2100	2150	2200	2260
Technology Investment	750	1025	1050	1077	1100	1300
Service Tech Base & Acquisition Programs	1732 0	16379	15150	1565 0	18880	1753 0
New Initiatives	2025	3010	3910	4320	1350	1350
TOTAL	2468 1	25289	25286	2650 3	27139	27790

JCRG DECISION REQUEST



■ CONCURRENCE ON POM-00 SUBMIT:

- ▶ USMC ___ Concur ___ Nonconcur
- ▶ USA ___ Concur ___ Nonconcur
- ▶ USAF ___ Concur ___ Nonconcur
- ▶ USN ___ Concur ___ Nonconcur
- ▶ USSOCOM ___ Concur ___ Nonconcur



FINAL COMMENTS/ISSUES ?
