EXHIBIT R-2a,	EXHIBIT R-2a, RDT&E Project Justification							DATE:						
	February 2003													
APPROPRIATION/BUDGET ACTIVITY	PROJECT NU	IMBER AND N	AME											
RDT&E, N /BA-4 Adv Comp Dev & Prototypes	0603851M No	n-Lethal War	fare DEM/VAL	_	C2319 Non-L	ethal Weapon	s Program							
									Cost to	Total				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program				
										i				
Project Cost	32.524	25.866	43.445	43.492	44.108	44.587	45.173	45.707	Cont	Cont				
RDT&E Articles Qty														

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project covers non-lethal weapon (NLW) systems which are those systems that by their design, do not inflict fatal or permanent injuries. Instead, these systems are designed to stun, incapacitate, or hinder movement of individuals, crowds, or equipment. The availability of NLWs allows commanders less than lethal options, particularly in urban warfare and military operations other than war, i.e., peacekeeping, humanitarian assistance and disaster relief, as well as special operations.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.630	1.400	1.430	1.550	
RDT&E Articles Qty					
Execution oversight, administration and supp	ort of the Joint NLW Program ar	nd technologies database.			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.800	0.430	0.645	0.645	
RDT&E Articles Qty					
Evaluation of NLWs by Service warfighting	laboratories and Joint Forces Cor	nmand (JFCOM) for direct user	feedback of various NL techno	ologies and munitions.	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.950	1.080	1.612	1.612	
RDT&E Articles Qty					
Modeline and simulation (MOC) of NI Wais	the Isint Conflict and Testical (Simulation (ICATC) model and m	aufaumanaa affaata data aallaa	tion/nonvilation to domanat	

Modeling and simulation (M&S) of NLWs in the Joint Conflict and Tactical Simulation (JCATS) model and performance effects data collection/population to demonstrate/analyze NL effects and optimze training.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.415	0.540	0.540	0.540
RDT&E Articles Qty				

Pursuit of new technology through open competition of industry, academia and government laboratory sources for NL capabilities.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.450	0.430	1.075	1.505
RDT&E Articles Qty				

Objective Individual Combat Weapons (OICW) – Continue development of NL munitions for the "next generation" combat weapon that will exploit the ability to air burst munitions with NL payloads at longer ranges with existing systems.

EARIDII K-Za	, RDT&E Project Justification	DATE:						
	•		February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	MBER AND NAME	PROJECT NUMBER AND N	PROJECT NUMBER AND NAME				
RDT&E, N /BA-4 Adv Comp Dev & Prototypes	0603851M Non-Lethal Wa	rfare DEM/VAL	C2319 Non-Lethal Weapons Program					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	1.140	1.100	1.129	1.149				
RDT&E Articles Qty								
Program support for each service's coordin	ation and oversight of the Joint N	LW Program.			<u></u>			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.700	0.860	1.075	1.075				
RDT&E Articles Qty								
NL Mortar – Continue development of NL	mortar casing devises for delivery	of NL payloads at extende	d ranges					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
Accomplishment/Effort Subtotal Cost	0.320	0.900	0.000	0.000				
RDT&E Articles Qty	0.320	0.900	0.000	0.000				
		1						
Mk19 NL Munition - Development of a NI	L munition for the 40mm Mk19 G	renade machine gun.						
			E) (000 (=\(\(\) = = = =				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005				
	FY 2002 1.288	FY 2003 1.288	0.000	0.000	_			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty								
Accomplishment/Effort Subtotal Cost	1.288	1.288	0.000	0.000				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative	1.288 e to allow pursuit of new NL mater	1.288 rials and technologies throu	gh a network of academic institutions	0.000				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions)	to allow pursuit of new NL mater	1.288 rials and technologies through FY 2003	gh a network of academic institutions FY 2004	0.000 s. FY 2005				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	1.288 e to allow pursuit of new NL mater	1.288 rials and technologies throu	gh a network of academic institutions	0.000				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	1.288 e to allow pursuit of new NL mater FY 2002 10.440	rials and technologies through FY 2003 5.859	gh a network of academic institutions FY 2004 4.518	0.000 S. FY 2005 4.857				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Co	1.288 e to allow pursuit of new NL mater FY 2002 10.440 encept Technology Demonstration	rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore	gh a network of academic institutions FY 2004 4.518 d effort that continues the developme	0.000 S. FY 2005 4.857	ation , testing and target			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	1.288 e to allow pursuit of new NL mater FY 2002 10.440 encept Technology Demonstration	rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore	gh a network of academic institutions FY 2004 4.518 d effort that continues the developme	0.000 S. FY 2005 4.857	ation , testing and target			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Co	1.288 e to allow pursuit of new NL mater FY 2002 10.440 encept Technology Demonstration	rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore	gh a network of academic institutions FY 2004 4.518 d effort that continues the developme	0.000 S. FY 2005 4.857	ation , testing and target			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coasessessment of a High Mobility Multipurpor	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem.	0.000 FY 2005 4.857 Int of a demo asset for evaluation of the demonstration of the demonst	ation , testing and target			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurport COST (\$ in Millions)	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004	0.000 FY 2005 4.857 Int of a demo asset for evaluation of the second	ation , testing and target			
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurpor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n FY 2002 1.500	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys FY 2003 1.612	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004 1.612	0.000 FY 2005 4.857 Int of a demo asset for evaluating FY 2005 0.538				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurpor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n FY 2002 1.500	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys FY 2003 1.612	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004 1.612	0.000 FY 2005 4.857 Int of a demo asset for evaluating FY 2005 0.538				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurpor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Advanced Tactical Laser (ATL) Advanced precision strike capability.	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n FY 2002 1.500 I Concept Technology Demonstrat	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys FY 2003 1.612 ion (ACTD) - Jointly spons	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004 1.612 ored effort to demonstrate technology	0.000 FY 2005 4.857 Int of a demo asset for evaluation of the second o				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurpos COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Advanced Tactical Laser (ATL) Advanced precision strike capability. COST (\$ in Millions)	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n FY 2002 1.500 I Concept Technology Demonstrat	1.288 rials and technologies throu FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys FY 2003 1.612 ion (ACTD) - Jointly spons	ph a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004 1.612 ored effort to demonstrate technology FY 2004	0.000 FY 2005 4.857 Int of a demo asset for evaluation of the second o				
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Non-lethal technology innovation initiative COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Active Denial System (ADS) Advanced Coassessment of a High Mobility Multipurpor COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Advanced Tactical Laser (ATL) Advanced precision strike capability.	1.288 e to allow pursuit of new NL mater FY 2002 10.440 concept Technology Demonstration se Wheeled Vehicle (HMMWV) n FY 2002 1.500 I Concept Technology Demonstrat	1.288 rials and technologies through FY 2003 5.859 (ACTD) - Jointly sponsore nounted directed energy sys FY 2003 1.612 ion (ACTD) - Jointly spons	gh a network of academic institutions FY 2004 4.518 d effort that continues the developmentem. FY 2004 1.612 ored effort to demonstrate technology	0.000 FY 2005 4.857 Int of a demo asset for evaluation of the second o				

	a, RDT&E Project Justification	DATE:								
	•			February 2003						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME	PROJECT NUMBER AND N	PROJECT NUMBER AND NAME						
RDT&E, N /BA-4 Adv Comp Dev & Prototypes	0603851M Non-Lethal War	rfare DEM/VAL	C2319 Non-Lethal Weapons Program							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.150	0.000	0.000	0.000						
RDT&E Articles Qty										
Running Gear Entanglement System (RGE	ES) - Complete joint evaluation of c	candidate capabilities to do	wnselect and advance into a service a	cquisition cycle.						
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.950	1.571	1.106	0.140						
RDT&E Articles Qty										
Mobility Denial System (MDS) - Joint eva	nuation, analysis and testing of slipp	pery substances and deliver	y methods/volumnes.							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
1	3.137	1.752	5.862	6.238						
RDT&E Articles Qty										
Studies and Analysis – Medical and NL ca	asualty data research and collection	: human effects assessmen	ts: acceptability analysis: and technic	al studies/analysis of emerging tech	nnologies for possible N					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 3.775	FY 2003 3.174	FY 2004 5.884	FY 2005 6.090						
RDT&E Articles Qty										
			nial to personnel, vehicles and boats		s.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	s.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost					s.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2002 0.400	FY 2003 0.430	FY 2004 0.430	FY 2005 0.430	s.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.400	FY 2003 0.430	FY 2004 0.430	FY 2005 0.430	; .					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2002 0.400	FY 2003 0.430	FY 2004 0.430	FY 2005 0.430	ş.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions)	FY 2002 0.400 and test commercial products that wi	FY 2003 0.430 Ill meet the Joint Services'	FY 2004 0.430 requirement for specific NL capabilit	FY 2005 0.430 y set common items.	ş.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar	FY 2002 0.400 and test commercial products that wi FY 2002	FY 2003 0.430 Il meet the Joint Services' 1	FY 2004 0.430 requirement for specific NL capabilit FY 2004	FY 2005 0.430 y set common items.	ş.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.400 and test commercial products that wi FY 2002 0.736	FY 2003 0.430 Il meet the Joint Services' 1 FY 2003 0.000	FY 2004 0.430 requirement for specific NL capabilit FY 2004 0.000	FY 2005 0.430 y set common items. FY 2005 0.000	3.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Conduct and evaluate concepts of employs COST (\$ in Millions)	FY 2002 0.400 and test commercial products that wi FY 2002 0.736 ment for current and emerging NL to FY 2002	FY 2003 0.430 Ill meet the Joint Services' of the services o	FY 2004 0.430 requirement for specific NL capabilit FY 2004 0.000 1 utility within the naval force protect FY 2004	FY 2005 0.430 y set common items. FY 2005 0.000 ion mission. FY 2005	ş.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Conduct and evaluate concepts of employs COST (\$ in Millions)	FY 2002 0.400 and test commercial products that wi FY 2002 0.736 ment for current and emerging NL t	FY 2003 0.430 Ill meet the Joint Services' in FY 2003 0.000 technologies for operationa	FY 2004 0.430 requirement for specific NL capabilit FY 2004 0.000 l utility within the naval force protect	FY 2005 0.430 y set common items. FY 2005 0.000 ion mission.	;.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Conduct and evaluate concepts of employing	FY 2002 0.400 and test commercial products that wi FY 2002 0.736 ment for current and emerging NL to FY 2002	FY 2003 0.430 Ill meet the Joint Services' of the services o	FY 2004 0.430 requirement for specific NL capabilit FY 2004 0.000 1 utility within the naval force protect FY 2004	FY 2005 0.430 y set common items. FY 2005 0.000 ion mission. FY 2005	;.					
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Joint Integration Program (JIP) – Select ar COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Conduct and evaluate concepts of employs COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2002 0.400 and test commercial products that wi FY 2002 0.736 ment for current and emerging NL to FY 2002 0.368	FY 2003 0.430 Il meet the Joint Services' of the services of	FY 2004 0.430 requirement for specific NL capabilit FY 2004 0.000 I utility within the naval force protect FY 2004 1.500	FY 2005 0.430 y set common items. FY 2005 0.000 ion mission. FY 2005 1.300						

EXHIBIT R-2a, RD	DATE:												
					February 2003								
	PROGRAM ELE			₫	PROJECT NUMBER AND NAME								
· · · · · · · · · · · · · · · · · · ·	0603851M Non-				C2319 Non-Lethal Weapons Program								
COST (\$ in Millions)	FY 200		FY 2003		FY 200		FY 2005						
Accomplishment/Effort Subtotal Cost	1.650	2.150		2.958	8	3.225	5						
RDT&E Articles Qty													
Pulsed Energy Projectile (PEP) – Explore the d	evelopment of las	ser hardware an	d extensive hum	an effects ch	aracterization rese	earch and to con	tinue refinement	of bio-effects	characterization	and			
optimization of lasers as a NL capability.													
COST (\$ in Millions)	FY 200	2	FY 200)3	FY 200	04	FY 200	05					
Accomplishment/Effort Subtotal Cost	0.000		0.000)	11.25	9	12.59	8					
RDT&E Articles Qty													
System development and design of concept expl	loration downsele	cted items to pr	oceed into the a	cquisition cy	cle to provide NL	technology solu	tions to critical	joint mission ta	sks.				
(U) Total \$ 0.000	32.524		25.866		43.445		43.492						
(U) PROJECT CHANGE SUMMARY:													
	FY2002	FY2003	FY2004	FY2005									
(U) FY 2003 President's Budget:	35.095	24.082	26.032	26.450									
(U) Adjustments from the President's Budget:													
(U) Congressional/OSD Program Reduction	-0.095	-0.616	-0.782	-1.164									
(U) Congressional Rescissions													
(U) Congressional Increases		2.400											
(U) PBD 751C			18.000	18.000									
` '	-2.432		10.000	10.000									
(U) Reprogrammings													
(U) SBIR/STTR Transfer	-0.044		0.105	0.206									
(U) Minor Affordability Adjustment			0.195	0.206									
(U) FY 2004 President's Budget:	32.524	25.866	43.445	43.492									
CHANGE SUMMARY EXPLANATION:													
(U) Funding: See Above.													
(U) Schedule: Not Applicable.													
(U) Technical: Not Applicable.													
(U) C. OTHER PROGRAM FUNDING SUMMA	RY:												
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost			
(U) PAN,MC BLI 162800, Non-Lethal Munitions	4.176	5.313	3.671	4.166		3.797	3.858	3.935	Continuing	Continuing			
(U) PMC BLI 237100, Operations Other Than	1.594	1.498	1.349	1.513	1.538	1.565	1.617	1.647	Continuing	Continuing			
									C				

PROPRIATIONBUGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME C2319 Non-Lethal Weapons Program TREE, NBA-1 Adv Comp be va Prototypes Prototypes D603851M Non-Lethal Warfare DEM/VAL PROJECT NUMBER AND NAME C2319 Non-Lethal Weapons Program TREE, NBA-1 Adv Comp be va Prototypes D. ACQUISITION STRATEGY: e) NLW Program strategy is to continue to pursue the fielding of NLW systems through modifying Commercial-Off-The-Shelf (COTS) products for near term capabilities and the velopment of new technology, NLW systems in various stages of acquisition. These are balanced with efforts in modeling and simulation, experimentation, and state-of-the-art technology restment. The acquisition strategy for each weapon system is largely lead service dependent. D.E. MAJOR PERFORMERS: OZ-PTOS-ARDEC, Picatinny Arsenal, NJ. Development and evaluation of the Objective Individual Combat Weapons (OICW) program, the Non-Lethal (NL) Mortar program, dt HM M19 NL Munition program. D2-PYOS-Raytheon Company, Rancho Cucamonga, CA. Working with the Air Force Research Laboratory at Kirtland Air Force Base, NM on the Active Denial System (ADS) wanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system. D3-CHEDULE PROFILE: Not Applicable.
PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME DEM/VAL PROJECT NUMBER AND NAME DEM/VAL PROJECT NUMBER AND NAME DEM/VAL DEM/VAL
REAL AND COMP DEV & Prototypes 0603851M Non-Lethal Warfare DEM/VAL C2319 Non-Lethal Weapons Program
D. ACQUISITION STRATEGY: e JNLW Program strategy is to continue to pursue the fielding of NLW systems through modifying Commercial-Off-The-Shelf (COTS) products for near term capabilities and the velopment of new technology NLW systems in various stages of acquisition. These are balanced with efforts in modeling and simulation, experimentation, and state-of-the-art technology restment. The acquisition strategy for each weapon system is largely lead service dependent. DE. MAJOR PERFORMERS: 102-FY05 - ARDEC, Picatinny Arsenal, NJ. Development and evaluation of the Objective Individual Combat Weapons (OICW) program, the Non-Lethal (NL) Mortar program, d the Mk19 NL Munition program. 102-FY05 - Raytheon Company, Rancho Cucamonga, CA. Working with the Air Force Research Laboratory at Kirtland Air Force Base, NM on the Active Denial System (ADS) lyanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system.
velopment of new technology NLW systems in various stages of acquisition. These are balanced with efforts in modeling and simulation, experimentation, and state-of-the-art technology vestment. The acquisition strategy for each weapon system is largely lead service dependent. (O2-FY05 - ARDEC, Picatinny Arsenal, NJ. Development and evaluation of the Objective Individual Combat Weapons (OICW) program, the Non-Lethal (NL) Mortar program, d the Mk19 NL Munition program. (O2-FY05 - Raytheon Company, Rancho Cucamonga, CA. Working with the Air Force Research Laboratory at Kirtland Air Force Base, NM on the Active Denial System (ADS) lyanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system.
702-FY05 - ARDEC, Picatinny Arsenal, NJ. Development and evaluation of the Objective Individual Combat Weapons (OICW) program, the Non-Lethal (NL) Mortar program, d the Mk19 NL Munition program. 702-FY05 - Raytheon Company, Rancho Cucamonga, CA. Working with the Air Force Research Laboratory at Kirtland Air Force Base, NM on the Active Denial System (ADS) Ivanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system.
d the Mk19 NL Munition program. 702-FY05 - Raytheon Company, Rancho Cucamonga, CA. Working with the Air Force Research Laboratory at Kirtland Air Force Base, NM on the Active Denial System (ADS) lyanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system.
lvanced Concept Technology Demonstration (ACTD) to continue the evaluation, testing and target assessment of a HMMWV mounted directed energy system.
SCHEDULE PROFILE: Not Applicable.

DATE:														
Exhibit R-3 Cost Analysis February 2003														
APPROPRIATION/BUDGE	T ACTIVITY	PROGRAM ELE				PROJEC	T NUMB	BER AND N	IAME					
RDT&E, N /BA-4 Adv Com	p Dev & Pro	totypes 0603851M Non-	Lethal Wa	rfare DEI	W/VAL			on-Lethal Weapons Program						
Cost Categories	Contract	Performing				FY 03 FY 04					FY 05			Target
	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Product Development	MIPR	USAIC, Ft. Benning, GA	2.999	0.400	12/01	0.000		0.000		0.000		Cont.	Cont.	
Product Development	MIPR	SMDC, Huntsville, AL	1.400	0.000		0.000		0.000		0.000		Cont.	Cont.	
Product Development	MIPR	ARDEC, Picatinny, NJ	45.041	4.341	10/01	3.805	10/02	7.531	10/03	7.810	10/04	Cont.	Cont.	
Product Development	MIPR	SOCOM, McDill AFB, FL	0.000	1.500	06/02	1.500	03/03	1.500	12/03	0.500	12/04	Cont.	Cont.	
Product Development	WR	NSWC, Various	10.161	1.714	Various	0.540	Various	1.152	Various	1.528	Various	Cont.	Cont.	
Product Development	MIPR	Kirtland AFB, NM	16.966	10.440	02/02	5.886	02/03	3.873	12/03	3.942	12/04	Cont.	Cont.	
Product Development	MIPR	JWCF, Ft. Monroe, VA	0.769	0.400	01/02	0.552	02/03	0.645	02/04	0.645	02/05	Cont.	Cont.	
Product Development	MIPR	Brooks AFB, TX	2.313	2.910	02/02	0.800	02/03	5.055	02/04	5.325	02/05	Cont.	Cont.	
Product Development	WR/RCP	MCSC, Quantico,VA	11.349			4.096		5.658		4.207	11/04	Cont.	Cont.	
Product Development	MIPR	NSMA, Arlington, VA	2.009			2.160		2.958		3.225		Cont.	Cont.	
Product Development	RCP	MCLB, Albany,GA	0.550			0.300		0.300		0.300	01/05	Cont.	Cont.	
Product Development	MIPR	Various (M&S)	0.793			1.080		1.613		1.613		Cont.	Cont.	
Product Development	MIPR	Various (TIP)	3.670			0.540		0.540				Cont.	Cont.	
Product Development	MIPR	Various (Services)	6.517			2.828		9.425		10.573		Cont.	Cont.	
'														
Subtotal Product Dev			104.537	30.494		24.087		40.250		40.208		Cont.	Cont.	
Remarks:			•	•	•	•		•		•	•		•	•
	10	1= .	1	1	I = \	1	I=\	1	I=\	1		_	1	<u> </u>
Cost Categories	Contract	Performing	Total	E) / 00	FY 02	E) (00	FY 03	E) (0 4	FY 04	E) (0 =	FY 05			Target
	Method	Activity &	PY s	FY 02	Award	FY 03		FY 04	Award	FY 05	Award	Cost to	Total	Value of
0	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Support Cost	WR WR	MCSC, Quantico, VA NSWC, Dahlgren, VA	2.709 1.483			0.430 0.420		0.430 0.420		0.430 0.420		Cont.	Cont.	
Support Cost Support Cost	RCP	CTQMSC, Quantico, VA	4.985			0.420		0.420		0.420		Cont. Cont.	Cont.	
Support Cost Support Cost	Various	Various	3.618			0.440		1.875			Various	Cont.	Cont.	
Support Cost	various	various	3.010	0.076	v arrous	0.469	various	1.073	various	1.004	various	COIII.	Cont.	
1			1			1	 					<u> </u>	 	
Subtotal Support			12.795	2.030		1.779		3.195		3.284		Cont.	Cont.	
Remarks:	1	ı	12.700		l		<u> </u>	0.100	L	0.201	l			<u> </u>
Tomano.														

									DATE:						
		Exhibit	R-3 Cost Analysi	S			February 2003								
APPROPRIATION/BUDGET	ACTIVITY		PROGRAM ELE	MENT			PROJECT NUMBER AND NAME								
RDT&E, N /BA-4 Adv Comp	Dev & Pro	totypes	0603851M Non-L	ethal Wa	rfare DEI	M/VAL	C2319 Non-Lethal Weapons Program								
Cost Categories	Contract	Performing		Total		FY 02		FY 03		FY 04		FY 05			Target
	Method	Activity &		PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Subtotal T&E				0.000	0.000		0.000		0.000		0.000		Cont.	Cont.	
Remarks:															
Coat Catagorias	Comtrast	Do who was in a		Tatal		EV 00		EV 02	I	EV 04	1	EV OF	1		Tarast
Cost Categories	Contract Method	Performing		Total PY s		FY 02	FY 03	FY 03		FY 04	FY 05	FY 05	Cost to	Total	Target
		Activity & Location				Award Date	Cost	Award Date	Cost	Award	Cost	Award Date	Cost to	Total Cost	Value of Contract
Contractor Eng Suppt	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	0.000	
Govt Engineering Suppt														0.000	
Program Mngmnt Suppt														0.000	
Travel														0.000	
Labor (Research Personnel)														0.000	
Overhead														0.000	
Subtotal Management				0.000	0.000		0.000		0.000		0.000		0.000		
Remarks:					l .							•		l.	
Total Cost					32.524		25.866		43.445		43.492		Cont.	Cont.	