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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	50.946	43.272	40.992	-	40.992	50.348	49.627	50.678	51.570	Continuing	Continuing
2319: <i>Non-Lethal Weapons</i>	47.839	43.272	40.992	-	40.992	50.348	49.627	50.678	51.570	Continuing	Continuing
9999: <i>Congressional Adds</i>	3.107	-	-	-	-	-	-	-	-	0.000	3.107

A. Mission Description and Budget Item Justification

The DoD's Joint Non-Lethal Weapons Program (JNLWP) was established by the Secretary of Defense, who assigned centralized responsibility for DoD joint research and development of non-lethal weapons and technology to the Commandant of the Marine Corps as the Executive Agent. The Under Secretary of Defense for Acquisition, Technology and Logistics (USD AT&L) provides direct oversight of the JNLWP.

The efforts described in this Program Element (PE) reflect Joint Service research and development (R&D) investment decisions provided by the Joint NLW Integrated Product Team, a multi-service flag level corporate board that executes the JNLWP for the Commandant of the Marine Corps. Research conducted is based on the needs and capabilities of the Services, the Special Operations Command, and the Coast Guard, as identified in the DoD's Non-Lethal Weapons Joint Capabilities Document. This coordinated joint R&D development approach addresses mutual capability gaps and assures the best non-lethal technologies and equipment are provided to the operating forces while eliminating duplicative Service investment.

This program funds Joint Service research, development, test, and evaluation of non-lethal weapon (NLW) systems and technologies that by their design provide a new non-lethal capability to minimize fatal or permanent injuries and undesired damage to property and the environment. Instead, these systems are designed to stun, incapacitate, or hinder movement of individuals, crowds, or equipment. The availability of NLW 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.

The Joint Non-Lethal Weapons Directorate was established by the Commandant of the Marine Corps to manage the day to day research and development activities of the Joint Non-Lethal Weapons Program. The JNLWP funding is distributed amongst the USA, USAF, USN, USMC, SOCOM, and USCG in support of NLW research and development efforts. Each Service is responsible for their procurement and operating support costs.

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>
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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	49.086	43.272	50.974	-	50.974
Current President's Budget	50.946	43.272	40.992	-	40.992
Total Adjustments	1.860	-	-9.982	-	-9.982
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	2.000	-			
• SBIR/STTR Transfer	-0.936	-			
• Program Adjustments	-	-	-9.332	-	-9.332
• Rate/Misc Adjustments	-	-	-0.650	-	-0.650
• Congressional General Reductions Adjustments	-0.004	-	-	-	-
• Congressional Add Adjustments	0.800	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: Congressional Adds

Congressional Add: *Non-Lethal Defense Technologies*

Congressional Add: *Eye Safe Laser Warning Systems*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2010	FY 2011
	2.310	-
	0.797	-
Congressional Add Subtotals for Project: 9999	3.107	-
Congressional Add Totals for all Projects	3.107	-

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2319: <i>Non-Lethal Weapons</i>	47.839	43.272	40.992	-	40.992	50.348	49.627	50.678	51.570	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project develops non-lethal weapon (NLW) systems that by their design provide a new non-lethal capability to minimize fatal or permanent injuries and undesired damage to property and the environment. Instead, these systems are designed to stun, incapacitate, or hinder movement of individuals, crowds, or equipment. The availability of NLW 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.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
<p>Title: *Modeling and Simulation (M&S) of NLWs.</p> <p style="text-align: right;">Articles:</p> <p>FY 2010 Accomplishments: Continued modeling and simulation (M&S) of NLWs in warfighter training/war gaming models and performance effects data collection/population to demonstrate/analyze NL effects and optimize training.</p> <p>FY 2011 Plans: Continue modeling and simulation (M&S) of NLWs in warfighter training/war gaming models and performance effects data collection/population to demonstrate/analyze NL effects and optimize training.</p> <p>FY 2012 Plans: Continue modeling and simulation (M&S) of NLWs in warfighter training/war gaming models and performance effects data collection/population to demonstrate/analyze NL effects and optimize training.</p>	<p>1.101</p> <p>0</p>	<p>1.167</p> <p>0</p>	<p>1.202</p> <p>0</p>
<p>Title: *Evaluations of NLWs.</p> <p style="text-align: right;">Articles:</p> <p>FY 2010 Accomplishments: Continued evaluation of NLWs by Service warfighting laboratories and Joint Forces Command (JFCOM) for direct user feedback of various non-lethal (NL) technologies and munitions.</p> <p>FY 2011 Plans: Continue evaluation of NLWs by Service warfighting laboratories and Joint Forces Command (JFCOM) for direct user feedback of various non-lethal (NL) technologies and munitions.</p> <p>FY 2012 Plans:</p>	<p>1.402</p> <p>0</p>	<p>1.486</p> <p>0</p>	<p>1.531</p> <p>0</p>

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
Continue evaluation of NLWs by Service warfighting laboratories and Joint Forces Command (JFCOM) for direct user feedback of various non-lethal (NL) technologies and munitions.				
Title: *JNLW Program's execution oversight and technologies database support.				
		Articles:	3.563 0	3.777 0
				3.890 0
FY 2010 Accomplishments: Continued execution oversight, administration and support of the Joint NLW Program and technologies database.				
FY 2011 Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database.				
FY 2012 Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database.				
Title: *Airburst Non-Lethal Munition				
		Articles:	2.600 0	- -
				- -
FY 2010 Accomplishments: Continued development of the XM112 40mm extended range NL munition for the next generation combat weapon which exploits air-burst munitions with NL payloads at longer ranges with existing systems. Conducted cartridge development and component integration test and evaluation.				
Title: *Program Support of the Joint NLW Program.				
		Articles:	2.125 0	2.253 0
				2.321 0
FY 2010 Accomplishments: Continued program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG.				
FY 2011 Plans: Continue program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG.				
FY 2012 Plans: Continue program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG.				
Title: *Active Denial Technology (ADT) Transition.				
		Articles:	1.000 0	1.950 0
				1.000 0

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<p><i>FY 2010 Accomplishments:</i> Continued maturation of active denial technologies in preparation for transition to joint acquisition programs of record. Conducted a comprehensive beam characterization and analysis of all active denial technology demonstrators. Supported efforts for the deployment of ADS System 2 into theater in support of overseas contingency operations.</p> <p><i>FY 2011 Plans:</i> Continue maturation of active denial technologies in preparation for transition to joint acquisition programs of record. Funding increase between FY10 and FY11 captures teh most promising emergent ADT technologies from Advanced Technology Development to increased levels of research and development.</p> <p><i>FY 2012 Plans:</i> Continue maturation of active denial technologies in preparation for transition to joint acquisition programs of record. Capture most promising emergent ADT technologies from Advanced Technology Development to higher levels of research and development.</p>				
<p><i>Title:</i> *Distributed Sound and Light Array (DSLA).</p> <p align="right"><i>Articles:</i></p>		0.270 0	-	-
<p><i>FY 2010 Accomplishments:</i> Continued multi-sensory counter-personnel research on non-lethal acoustical/optical weapons for use as a hail and warning device. Efforts focussed on the fabrication of a hardened, ruggedized system with improved laser engineering constraints.</p> <p><i>Title:</i> *JNLW Emerging Technologies</p> <p align="right"><i>Articles:</i></p>		16.780 0	15.216 0	15.650 0
<p><i>FY 2010 Accomplishments:</i> Continued the advanced development of emerging technologies into the acquisition process to satisfy critical joint mission tasks. Increases to this line item represent maturing technology transitions from advanced technology development efforts.</p> <p><i>FY 2011 Plans:</i> Continue the advanced development of emerging technologies into the acquisition process to satisfy critical joint mission tasks. This line item funds maturing technology transitions from advanced technology development efforts.</p> <p><i>FY 2012 Plans:</i> Continue the advanced development of emerging technologies into the acquisition process to satisfy critical joint mission tasks. Increases to this line item represent maturing technology transitions from advanced technology development efforts.</p>				
<p><i>Title:</i> *System development and Design of technology development.</p>		7.922	6.672	3.764

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
Articles:		0	0	0
FY 2010 Accomplishments: Continued system development and design of technology development downselected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks.				
FY 2011 Plans: Continue system development and design of technology development downselected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks.				
FY 2012 Plans: Continue system development and design of technology development downselected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks.				
Title: *Develop/expand the NATO Measures of Effectives (MOE) efforts.		1.854	1.873	1.981
Articles:		0	0	0
FY 2010 Accomplishments: Continued to develop/expand the NATO Measures of Effectives (MOE) efforts, chaired by the U.S. to provide input for Defense Capabilities Initiative (DCI) and NATO assessment of NLW in the Defense planning process. Expanded interaction with component commander (COCOM) staffs to identify emerging NLW capabilities and their utility in theater operations and Homeland Security missions.				
FY 2011 Plans: Continue to develop/expand the NATO Measures of Effectives (MOE) efforts, chaired by the U.S. to provide input for Defense Capabilities Initiative (DCI) and NATO assessment of NLW in the Defense planning process. Expanded interaction with component commander (COCOM) staffs to identify emerging NLW capabilities and their utility in theater operations and Homeland Security missions.				
FY 2012 Plans: Continue to develop/expand the NATO Measures of Effectives (MOE) efforts, chaired by the U.S. to provide input for Defense Capabilities Initiative (DCI) and NATO assessment of NLW in the Defense planning process. Expanded interaction with component commander (COCOM) staffs to identify emerging NLW capabilities and their utility in theater operations and Homeland Security missions.				
Title: *Mission Payload Module Non Lethal Weapon System (formerly TUGV)		2.060	3.046	4.664
Articles:		0	0	0
FY 2010 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
Continued development of a tube launched NL munition for integration on HMMWVs, tactical vehicles, boats and ships, with a range of 30-150 meters (T) and 10 - 500 meters (O). Mission Payload Module (MPM) will provide an improved Non-Lethal (NL) capability applicable to controlling crowds, denying/defending areas, controlling access and engaging threats while providing increased standoff for protection of friendly forces. The weapons platform will provide greater range, area coverage, duration of effects, selectability, and scalability for these non-lethal effects than current NLW systems. FY 2011 Plans: Continue development of a tube launched NL munition for integration on HMMWVs, tactical vehicles, boats and ships, with a range of 30-150 meters (T) and 10 - 500 meters (O). Efforts will include the final design and payload development, MS B documentation development, coordination and approval. FY 2012 Plans: Continue development of a tube launched NL munition for integration on HMMWVs, tactical vehicles, boats and ships, with a range of 30-150 meters (T) and 10 - 500 meters (O). Efforts will include completion of EMD contracting, preliminary design review, preliminary review boards and panels.				
Title: *Joint Integration Program (JIP).		0.600	0.600	0.600
		Articles: 0	0	0
FY 2010 Accomplishments: Continue to select and test newly developed commercial products that may meet the Joint Services' requirements for specific NL capability set common items. Conducted an evaluation of COTS non-lethal fogger grenades in support of Service counter-personnel requirements. FY 2011 Plans: Continue to select and test newly developed commercial products that may meet the Joint Services' requirements for specific NL capability set common items. FY 2012 Plans: Continue to select and test newly developed commercial products that may meet the Joint Services' requirements for specific NL capability set common items.				
Title: *Studies and Analysis		6.562	5.232	4.389
		Articles: 0	0	0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
Continued medical and NL casualty data research and collection; human effects assessments; acceptability analysis; and technical studies/analysis of emerging technologies for possible NL application. FY 2011 Plans: Continue medical and NL casualty data research and collection; human effects assessments; acceptability analysis; and technical studies/analysis of emerging technologies for possible NL application. FY 2012 Plans: Continue medical and NL casualty data research and collection; human effects assessments; acceptability analysis; and technical studies/analysis of emerging technologies for possible NL application.				
Accomplishments/Planned Programs Subtotals		47.839	43.272	40.992
C. Other Program Funding Summary (\$ in Millions) N/A				
D. Acquisition Strategy The 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 development 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 investment. The acquisition strategy for each weapon system is largely Lead Service dependent. The JNLWP provides RDT&E funding while the Services are responsible for procurement and operations and maintenance funding. For complex development programs, such as directed energy research, JNLWP RDT&E funds will augment each Service's RDT&E funding in support of joint applications.				
E. Performance Metrics N/A				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NLW Product Development	MIPR	ARDEC:Picatinny, NJ	35.688	5.500		5.311		-		5.311	0.000	46.499	
NLW Product Development	MIPR	SOCOM:McDill AFB, FL	12.221	1.956		2.000		-		2.000	0.000	16.177	
NLW Product Development	WR	NSWC:Various	16.313	2.842		2.941		-		2.941	0.000	22.096	
NLW Product Development	MIPR	USAF:Eglin AFB, FL	15.464	1.500		-		-		-	0.000	16.964	
NLW Product Development	MIPR	USAF:Kirtland AFB, NM	21.061	1.000		1.035		-		1.035	0.000	23.096	
NLW Product Development	MIPR	USAF:Brooks AFB, TX	38.584	5.539		5.500		-		5.500	0.000	49.623	
NLW Product Development	MIPR	JWCF:Fort Monroe, VA	12.157	-		-		-		-	0.000	12.157	
NLW Product Development	Various	MCSC:Quantico, VA	16.137	0.350		4.664		-		4.664	0.000	21.151	
NLW Product Development	MIPR	NSMA:Arlington, VA	23.277	1.000		-		-		-	0.000	24.277	
NLW Product Development	C/CPFF	MCLB:Albany, GA	8.316	-		-		-		-	0.000	8.316	
NLW Product Development	MIPR	M&S:Various	15.743	1.167		1.208		-		1.208	0.000	18.118	
NLW Product Development	Various	JIP:Various	11.912	0.600		0.600		-		0.600	0.000	13.112	
NLW Product Development	Various	Uniformed Services:Various	84.758	19.020		15.633		-		15.633	0.000	119.411	
Subtotal			311.631	40.474		38.892		-		38.892	0.000	390.997	

Remarks
 Joint Program funds are distributed amongst the USA, USAF, USN, USMC, SOCOM, and USCG in support of NLW research and development efforts. Each Cost Category Item does not correlate to an individual project/effort. They fund multiple non-lethal projects/efforts that are incrementally funded throughout the fiscal year as each service identifies the project/effort requiring funding. Therefore the Award Dates for each cost category item is various.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NLW Support Cost	WR	MCSC:Quantico, VA	10.534	0.337		-		-		-	0.000	10.871	
NLW Support Cost	WR	NSWC:Dahlgren, VA	11.687	1.311		1.400		-		1.400	0.000	14.398	
NLW Support Cost	Various	Various:Various	29.776	0.650		0.700		-		0.700	0.000	31.126	
Subtotal			51.997	2.298		2.100		-		2.100	0.000	56.395	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>
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FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Proj 2319	
AIRBURST NON-LETHAL MUNITION (ANLM) - MS C	
MISSION PAYLOAD MODULE (MPM) - MS B	
MISSION PAYLOAD MODULE (MPM) - MS C	

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603851M: <i>Joint Non-Lethal Weapons Testing</i>	PROJECT 2319: <i>Non-Lethal Weapons</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2319</i>				
AIRBURST NON-LETHAL MUNITION (ANLM) - MS C	1	2010	2	2012
MISSION PAYLOAD MODULE (MPM) - MS B	2	2011	1	2012
MISSION PAYLOAD MODULE (MPM) - MS C	1	2012	1	2015

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	3.107	-	-	-	-	-	-	-	-	0.000	3.107
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project develops non-lethal weapon (NLW) systems that by their design, provide a new non-lethal capability to minimize fatal or permanent injuries and undesired damage to property and the environment. As identified in the Non-Lethal Effects Joint Capabilities Document, the ability to non-lethally stop vehicles is the top capability gap as identified by the Services.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011
Congressional Add: Non-Lethal Defense Technologies	2.310	-
FY 2010 Accomplishments: This Congressional plus up is intended to assist in the cross comparison of non-lethal defense technologies, human effects and long term programmatic of multiple initiatives and the independent technical assessment of non-lethal weapons.		
Congressional Add: Eye Safe Laser Warning Systems	0.797	-
FY 2010 Accomplishments: This Congressional plus up is intended to assist in the cross comparison of eye safe laser warning technologies, human effects and long term programmatic non-lethal weapons.		
Congressional Adds Subtotals	3.107	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

The 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 development 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 investment. The acquisition strategy for each weapon system is largely Lead Service dependent. The JNLWP provides RDT&E funding while the Services are responsible for procurement and operations and maintenance funding. For complex development programs, such as directed energy research, JNLWP RDT&E funds will augment Service RDT&E funding in support of joint applications.

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E. Performance Metrics

N/A