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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
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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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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	42.464	40.992	44.994	-	44.994	60.907	53.731	54.732	55.728	Continuing	Continuing
2319: <i>Non-Lethal Weapons</i>	42.464	40.992	44.994	-	44.994	60.907	53.731	54.732	55.728	Continuing	Continuing

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 principle oversight of the JNLWP.

The efforts in this Program Element (PE) reflect Joint Service research and development (R&D) investment decisions provided by the Joint Non Lethal Weapons Integrated Product Team, a multi-service flag level corporate board that executes the JNLWP for the Executive Agent. 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 PE funds Joint Service research, development, test, and evaluation of non-lethal weapon (NLW) systems and technologies that provide a non-lethal capability to minimize fatal or permanent injuries as well as undesired damage to property and the environment. NLW are designed to incapacitate or hinder movement of individuals, crowds, or equipment. The availability of NLW allows commanders less than lethal options, across the spectrum of military operational warfare, i.e., peacekeeping, humanitarian assistance and disaster relief, as well as special operations.

The Joint Non-Lethal Weapons Directorate was established by the Executive Agent to manage the day to day research and development activities of the DoD 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.

Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.

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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	43.272	40.992	50.348	-	50.348
Current President's Budget	42.464	40.992	44.994	-	44.994
Total Adjustments	-0.808	-	-5.354	-	-5.354
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.585	-			
• Program Adjustments	-	-	-5.219	-	-5.219
• Rate/Misc Adjustments	-	-	-0.135	-	-0.135
• Congressional General Reductions Adjustments	-0.223	-	-	-	-

Change Summary Explanation

Beginning in FY 2013, previously OM,MC appropriation funded operating costs (i.e. civilian salaries) were permanently transferred into this Program Element, which increased funding by \$3.1M.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
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>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2319: <i>Non-Lethal Weapons</i>	42.464	40.992	44.994	-	44.994	60.907	53.731	54.732	55.728	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 provide a new non-lethal capability to minimize fatal or permanent injuries and undesired damage to property and the environment. 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 2011	FY 2012	FY 2013	
Title: *Modeling and Simulation (M&S) of NLWs.								1.167	1.202	1.256	
Articles:								0	0	0	
FY 2011 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.											
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.											
FY 2013 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.											
Title: *Evaluations of NLWs.								1.486	1.531	2.250	
Articles:								0	0	0	
FY 2011 Accomplishments: Continued evaluation of NLWs by Service warfighting laboratories and Joint Staff, J7, Joint and Coalition Warfighting for direct user feedback of various non-lethal (NL) technologies and munitions to include policy and strategy and strategic communication.											
FY 2012 Plans: Continue evaluation of NLWs by Service warfighting laboratories and Joint Staff, J7, Joint and Coalition Warfighting for direct user feedback of various non-lethal (NL) technologies and munitions to include policy and strategy and strategic communication.											
FY 2013 Plans:											

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851M: Joint Non-Lethal Weapons Testing	PROJECT 2319: Non-Lethal Weapons		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Continue evaluation of NLWs by Service warfighting laboratories and Joint Staff, J7, Joint and Coalition Warfighting for direct user feedback of various non-lethal (NL) technologies and munitions to include policy and strategy and strategic communication.				
Title: *JNLW Program's execution oversight and technologies database support. FY 2011 Accomplishments: Continued execution oversight, administration and support of the Joint NLW Program and technologies database. The increase in this line item for FY2013 and out reflects funding for the operation of the JNLWD. FY 2012 Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database. The increase in this line item for FY2013 and out reflects funding for the operation of the JNLWD. FY 2013 Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database. The increase in this line item for FY2013 and out reflects funding for the operation of the JNLWD.		Articles: 3.777 0	3.890 0	6.998 0
Title: *Program Support of the Joint NLW Program. FY 2011 Accomplishments: Continued 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. FY 2013 Plans: Continue program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG.		Articles: 2.253 0	2.321 0	2.425 0
Title: *Active Denial Technology (ADT) Transition. FY 2011 Accomplishments:		Articles: 1.950 0	1.000 0	1.045 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Continued maturation of active denial technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. FY 2012 Plans: Continue maturation of active denial technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. FY 2013 Plans: Continue maturation of active denial technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record.				
Title: *JNLW Emerging Technologies Articles: FY 2011 Accomplishments: Continued the advanced development of a wide range of Counter-Personnel and Counter-Materiel emerging technologies in directed energy and kinetic weapons and munitions to support Combatant Commands and Service capability gaps and priorities. This line item funds maturing technology transitions from advanced technology development efforts. Successful Non-Lethal system demonstrations included escalation of force vehicle stopping options with Distributed Sound and Light Array/Pre-Emplaced Vehicle Stopper, long range vessel stopping options with RF Vessel Stopper, small and mid size vessel stopping with entanglement devices, counter material options with a counter electronic system, and counter personnel options with 40mm Human Electro-Muscular Incapacitation. FY 2012 Plans: Continue the advanced development of a wide range of Counter-Personnel and Counter-Materiel emerging technologies in directed energy and kinetic weapons and munitions to support Combatant Commands and Service capability gaps and priorities. This line item funds maturing technology transitions from advanced technology development efforts. FY 2013 Plans: Continue the advanced development of a wide range of Counter-Personnel and Counter-Materiel emerging technologies in directed energy and kinetic weapons and munitions to support Combatant Commands and Service capability gaps and priorities. This line item funds maturing technology transitions from advanced technology development efforts.		15.216 0	15.650 0	16.120 0
Title: *System development and Design of technology development. Articles: FY 2011 Accomplishments:		5.864 0	3.764 0	4.508 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
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 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. FY 2013 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. Articles: FY 2011 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 combatant 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 combatant commander (COCOM) staffs to identify emerging NLW capabilities and their utility in theater operations and Homeland Security missions. FY 2013 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 combatant commander (COCOM) staffs to identify emerging NLW capabilities and their utility in theater operations and Homeland Security missions.		1.873 0	1.981 0	2.070 0
Title: *Mission Payload Module Non Lethal Weapon System (formerly TUGV) Articles: FY 2011 Accomplishments: Continued development of a tube launched NL munition for integration on vehicles and vessels, with a range of 30-150 meters threshold (T) and 10 -500 meters objective (O). Efforts will include the final design and payload development, MS B		3.046 0	4.664 0	2.134 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
documentation development, coordination and approval. Conducted Government confirmation tests to evaluate the effectiveness and Risk of Significant Injury (RSI) of the contractor's non-lethal munitions designs. Evaluated the technical adequacy of the proposed system design to ensure that the technology within the proposed system design met the performance specifications. 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. FY 2013 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). Finalize system design and conduct pre-developmental test activities to determine system readiness for developmental testing.				
Title: *Joint Integration Program (JIP). FY 2011 Accomplishments: Continued to select and test newly developed commercial products that may meet the Joint Service requirements for specific NL capability set common items. Evaluations included the following COTS items, OC (Oleoresin Capsicum) Pepper Spray, COTS Non-Lethal Fogger Grenades. FY 2012 Plans: Continue to select and test newly developed commercial products that may meet the Joint Service requirements for specific NL capability set common items. FY 2013 Plans: Continue to select and test newly developed commercial products that may meet the Joint Service requirements for specific NL capability set common items.		Articles: 0.600 0	0.600 0	0.600 0
Title: *Studies and Analysis FY 2011 Accomplishments: 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. Human Effects Studies and assessments included analysis on Kibosh, Harbinger and Mission Payload Module efforts, ADT Beam Characterization and Diagnostic Suite		Articles: 5.232 0	4.389 0	5.588 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
study, and assessment of methodology used to determination of Non-Lethal Risk of Significant Injury (RSI) for multiple munitions and systems. 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. FY 2013 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		42.464	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 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851M: Joint Non-Lethal Weapons Testing	PROJECT 2319: Non-Lethal Weapons
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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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	41.188	5.311	Oct 2011	2.500	Oct 2012	-		2.500	0.000	48.999	
NLW Product Development	MIPR	SOCOM:McDill AFB, FL	14.177	2.000	Oct 2011	3.500	Oct 2012	-		3.500	0.000	19.677	
NLW Product Development	Various	NSWC:Various	19.155	2.941	Oct 2011	4.460	Oct 2012	-		4.460	0.000	26.556	
NLW Product Development	MIPR	USAF:Eglin AFB, FL	16.964	-		-		-		-	0.000	16.964	
NLW Product Development	MIPR	USAF:Kirtland AFB, NM	22.061	1.035	Oct 2011	1.500	Oct 2012	-		1.500	0.000	24.596	
NLW Product Development	MIPR	USAF:Brooks AFB, TX	44.123	5.500	Oct 2011	3.500	Oct 2012	-		3.500	0.000	53.123	
NLW Product Development	MIPR	JWCF:Fort Monroe, VA	12.157	-		-		-		-	0.000	12.157	
NLW Product Development	Various	MCSC:Quantico, VA	16.487	4.664	Oct 2011	5.000	Oct 2012	-		5.000	0.000	26.151	
NLW Product Development	MIPR	NSMA:Arlington, VA	24.277	-		-		-		-	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	16.910	1.208	Oct 2011	1.500	Oct 2012	-		1.500	0.000	19.618	
NLW Product Development	Various	JIP:Various	12.512	0.600	Oct 2011	0.600	Oct 2012	-		0.600	0.000	13.712	
NLW Product Development	Various	Uniformed Services:Various	103.778	15.633	Oct 2011	18.733	Oct 2012	-		18.733	0.000	138.144	
Subtotal			352.105	38.892		41.293		-		41.293	0.000	432.290	

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.

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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	10.871	-		-		-		-	0.000	10.871	
NLW Support Cost	WR	NSWC:Dahlgren, VA	12.998	1.400	Oct 2011	0.600	Oct 2012	-		0.600	0.000	14.998	
NLW Support Cost	Various	Various:Various	30.426	0.700	Oct 2011	3.101	Oct 2012	-		3.101	0.000	34.227	
Subtotal			54.295	2.100		3.701		-		3.701	0.000	60.096	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
MPM T&E Cost	Various	Various:Various	3.553	-		-		-		-	0.000	3.553	
Subtotal			3.553	-		-		-		-	0.000	3.553	

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	409.953	40.992		44.994		-		44.994	0.000	495.939	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy										DATE: February 2012			
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>			

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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																												
MISSION PAYLOAD MODULE (MPM) - MS B																												
MISSION PAYLOAD MODULE (MPM) - MS C																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2319				
MISSION PAYLOAD MODULE (MPM) - MS B	2	2011	1	2012
MISSION PAYLOAD MODULE (MPM) - MS C	1	2012	1	2015