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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603851M / <i>Joint Non-Lethal Weapons Testing</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	420.695	39.470	35.627	29.448	-	29.448	29.151	29.949	30.874	31.745	Continuing	Continuing
2319: <i>Non-Lethal Weapons</i>	420.695	39.470	35.627	29.448	-	29.448	29.151	29.949	30.874	31.745	Continuing	Continuing

A. Mission Description and Budget Item Justification

The DOD Non-Lethal Weapons Program was established by the Office of the Secretary of Defense, which designated the Commandant of the Marine Corps (CMC) as the DoD NLW Executive Agent (EA). The EA exercises centralized responsibility for joint research and development of non-lethal weapons and technology through the Joint Non-Lethal Weapons Program (JNLWP). The Office of the Under Secretary of Defense for Acquisition, Technology and Logistics 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 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. Advanced Component Development and Prototypes provide non-lethal capabilities which directly support the three pillars of the 2014 Quadrennial Defense Review and comprise a fundamental part of DoD's security cooperation efforts to build partner capacity. The resulting capabilities will facilitate a fully integrated non-lethal competency as a complement to lethal firepower, providing force application options for short-of-lethal scenarios.

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. NLWs are defined as weapons, devices, and munitions that are explicitly designed and primarily employed to incapacitate targeted personnel or materiel immediately, while minimizing fatalities, permanent injury to personnel, and undesired damage to property in the target area or environment. NLW are intended to have reversible effects on personnel and materiel. (DoDD 3000.03E, DoD Executive Agent for Non-Lethal Weapons (NLW), and NLW Policy)

The Joint Non-Lethal Weapons Directorate is designated as a R&D organization and 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 resources 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 / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603851M / <i>Joint Non-Lethal Weapons Testing</i>
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B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	49.278	40.912	40.753	-	40.753
Current President's Budget	39.470	35.627	29.448	-	29.448
Total Adjustments	-9.808	-5.285	-11.305	-	-11.305
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-5.285			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-8.582	-			
• SBIR/STTR Transfer	-1.226	-			
• Rate/Misc Adjustments	-	-	-11.305	-	-11.305

Change Summary Explanation

The FY 2016 funding request was reduced by \$6.283M to account for the availability of prior year execution balances. The decrease in funding from FY15 to FY16 reflects changes and modifications to Joint NLWs investments.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603851M / Joint Non-Lethal Weapons Testing				Project (Number/Name) 2319 / Non-Lethal Weapons			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2319: Non-Lethal Weapons	420.695	39.470	35.627	29.448	-	29.448	29.151	29.949	30.874	31.745	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
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. All significant increases/decreases from FY15 to FY16 are related to changes/modifications to Joint Service NLWs investments.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: *Modeling and Simulation (M&S) of NLWs Articles: FY 2014 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 2015 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 2016 Base 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 2016 OCO Plans: N/A								2.176	2.515	0.677	-	0.677
								-	-	-	-	-
Title: *Evaluations of NLWs Articles:								3.414	3.463	0.652	-	0.652
								-	-	-	-	-
FY 2014 Accomplishments:												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
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 2015 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 2016 Base 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 2016 OCO Plans: N/A								
Title: *JNLW Program's execution oversight and technologies database support Articles: FY 2014 Accomplishments: Continued execution oversight, administration and support of the Joint NLW Program and technologies database. FY 2015 Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database. FY 2016 Base Plans: Continue execution oversight, administration and support of the Joint NLW Program and technologies database. FY 2016 OCO Plans: N/A				5.652 -	5.681 -	5.181 -	- -	5.181 -
Title: *Service Coordination and Requirements Development Articles: FY 2014 Accomplishments:				4.189 -	3.742 -	1.668 -	- -	1.668 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Continued program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG. FY 2015 Plans: Continue program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG. FY 2016 Base Plans: Continue program support efforts for each Service's coordination and participation in the Joint NLW Program. This includes SOCOM and USCG. FY 2016 OCO Plans: N/A						
Title: *Active Denial Technology (ADT) Transition Articles:		3.657 -	0.364 -	3.284 -	- -	3.284 -
FY 2014 Accomplishments: 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 2015 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 2016 Base 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 2016 OCO Plans: N/A						
Title: *JNLW Emerging Technologies Articles:		4.355 -	3.192 -	4.134 -	- -	4.134 -
FY 2014 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						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Service capability gaps and priorities. This line item funds maturing technology transitions from advanced technology development efforts. FY 2015 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 2016 Base 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 2016 OCO Plans: N/A								
Title: *System development and Design of technology development Articles:				3.453 -	3.899 -	1.656 -	- -	1.656 -
FY 2014 Accomplishments: Continued system development and design of technology development down selected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks. FY 2015 Plans: Continue system development and design of technology development down selected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks. FY 2016 Base Plans: Continue system development and design of technology development down selected items to proceed into the acquisition cycle to provide NL technology solutions to critical joint mission tasks. FY 2016 OCO Plans: N/A								
Title: *Develop/expand the NATO Measures of Effectives (MOE) efforts Articles:				2.710 -	2.557 -	1.547 -	- -	1.547 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
FY 2014 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 2015 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 2016 Base 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 2016 OCO Plans: N/A						
Title: *Mission Payload Module Non Lethal Weapon System		3.683	4.236	6.826	-	6.826
Articles:		-	-	-	-	-
FY 2014 Accomplishments: -Complete the Critical Design Review (CDR) and post-CDR assessment. -Complete developmental test activities (Developmental Test & Evaluation) and Operational Assessment.						
FY 2015 Plans: -Complete design by completing the Critical Design Review (CDR), and post-CDR assessment. -Complete developmental test activities (Developmental Test & Evaluation) and Operational Assessment.						
FY 2016 Base Plans: -Continue Developmental, Test and Evaluation and Initial Operational Test.						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Continue Engineering Manufacturing Development Physical Configuration Audit, Operational Assessment, and User Evaluation.						
FY 2016 OCO Plans: N/A						
Title: *Joint Integration Program (JIP)		0.775	0.125	0.311	-	0.311
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Continued to select and test newly developed commercial products that may meet the Joint Service requirements for specific NL capability set common items.						
FY 2015 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 2016 Base 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 2016 OCO Plans: N/A						
Title: *Studies and Analysis		5.406	5.853	3.512	-	3.512
Articles:		-	-	-	-	-
FY 2014 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.						
FY 2015 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 2016 Base Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total						
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 2016 OCO Plans: N/A											
Accomplishments/Planned Programs Subtotals	39.470	35.627	29.448	-	29.448						
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• PE 0602651M: <i>Joint Non-Lethal Weapons Applied Research</i>	5.805	5.880	6.119	-	6.119	6.327	6.425	6.425	6.425	Continuing	Continuing
• PE 0603651M: <i>Joint Non-Lethal Weapons Advanced Technology Development</i>	11.452	11.498	12.745	-	12.745	13.117	13.448	13.387	13.387	Continuing	Continuing
• PE 0206623M: <i>Marine Corps Ground Weaponry</i>	7.785	-	-	-	-	-	-	-	-	-	7.785
Remarks											
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 support each Service's RDT&E joint application efforts.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0603851M / Joint Non-Lethal Weapons Testing						Project (Number/Name) 2319 / Non-Lethal Weapons			
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	48.999	3.500	Oct 2013	3.204	Oct 2014	3.067	Oct 2015	-		3.067	Continuing	Continuing	Continuing
NLW Product Development	MIPR	SOCOM : McDill AFB, FL	21.374	4.200	Oct 2013	4.210	Oct 2014	3.956	Oct 2015	-		3.956	Continuing	Continuing	Continuing
NLW Product Development	Various	NSWC : Various	26.556	5.239	Oct 2013	3.709	Oct 2014	4.182	Oct 2015	-		4.182	Continuing	Continuing	Continuing
NLW Product Development	MIPR	USAF : Kirtland AFB, NM	27.596	2.975	Oct 2013	2.576	Oct 2014	2.544	Oct 2015	-		2.544	Continuing	Continuing	Continuing
NLW Product Development	MIPR	USAF : Ft. Sam Houston AFB, TX	53.123	3.611	Oct 2013	3.391	Oct 2014	3.805	Oct 2015	-		3.805	Continuing	Continuing	Continuing
NLW Product Development	Various	MCSC : Quantico, VA	25.940	0.583	Oct 2013	4.453	Oct 2014	-	Oct 2015	-		-	Continuing	Continuing	Continuing
NLW Product Development	MIPR	M&S : Various	19.618	1.500	Oct 2013	1.214	Oct 2014	1.156	Oct 2015	-		1.156	Continuing	Continuing	Continuing
NLW Product Development	Various	JIP : Various	13.712	-	Oct 2013	0.515	Oct 2014	0.311	Oct 2015	-		0.311	Continuing	Continuing	Continuing
NLW Product Development	Various	Uniformed Services : Various	132.842	12.478	Oct 2013	7.955	Oct 2014	9.827	Oct 2015	-		9.827	Continuing	Continuing	Continuing
Subtotal			369.760	34.086		31.227		28.848		-		28.848	-	-	-
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. October award dates reflect the start of incremental funding and does not indicate that the full amount will be awarded in October.															
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NLW Support Cost	WR	NSWC : Dahlgren, VA	14.998	0.600	Oct 2013	0.600	Oct 2014	0.600	Oct 2015	-		0.600	Continuing	Continuing	Continuing
NLW Support Cost	Various	Various : Various	35.937	4.784	Feb 2014	3.800	Feb 2015	-	Feb 2016	-		-	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy													Date: February 2015		
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0603851M / <i>Joint Non-Lethal Weapons Testing</i>						Project (Number/Name) 2319 / <i>Non-Lethal Weapons</i>			
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			50.935	5.384		4.400		0.600		-		0.600	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			420.695	39.470		35.627		29.448		-		29.448	-	-	-
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. October award dates reflect the start of incremental funding and does not indicate that the full amount will be awarded in October.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy			Date: February 2015		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603851M / <i>Joint Non-Lethal Weapons Testing</i>			Project (Number/Name) 2319 / <i>Non-Lethal Weapons</i>

FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
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): Engineering, Manufacturing & Development Phase	

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy		Date: February 2015
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603851M / <i>Joint Non-Lethal Weapons Testing</i>	Project (Number/Name) 2319 / <i>Non-Lethal Weapons</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2319</i>				
MISSION PAYLOAD MODULE (MPM): Engineering, Manufacturing & Development Phase	1	2014	2	2018