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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	598.485	27.922	28.435	29.589	-	29.589	-	-	-	-	-	-
2319: <i>Non-Lethal Weapons</i>	598.485	27.922	28.435	29.589	-	29.589	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The DoD Non-Lethal Weapons Program was established by the FY 1996 National Defense Authorization Act. The Office of the Secretary of Defense 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 and Sustainment serves as the OSD Principal Staff Assistant and oversees, in consultation with the Under Secretary of Defense for Policy, the DoD NLW Executive Agent.

The efforts described in this Program Element (PE) reflect Joint Service research and development (R&D) investment decisions by the Joint Non-Lethal Weapons Integrated Product Team, a multi-service flag level corporate board that provides executive oversight and management of the JNLWP for the EA. Research conducted is based on the requirements and capabilities sought by the Services and the Coast Guard, as identified in JROC-approved Joint Non-Lethal Effects Initial Capabilities Documents. This coordinated joint Research and Development approach addresses mutual capability gaps and assures the most relevant non-lethal technologies, capabilities and equipment are provided to the operating forces while eliminating duplicative Service investment. Advanced Component Development and Prototypes non-lethal weapons initiatives provide non-lethal capabilities in direct support of the National Defense Strategy (NDS) objective of strategic competition by providing options to the joint force in pursuit of national objectives in legal or policy constrained scenarios, as well as complementing the use of lethal effects in complex combat scenarios, for example, in urban environments with large civilian populations. Ongoing NLW studies, analyses and exercise efforts with NATO and Allies also support NDS objectives to strengthen alliances and partnerships. Resulting capabilities facilitate a fully integrated non-lethal competency as a complement to lethal firepower, providing force application options for below lethal threshold engagements.

This PE funds Joint Service research, development, test, and evaluation of non-lethal weapons, devices, munitions and technologies which provide a non-lethal capability to minimize significant injuries as well as undesired damage to property and the environment. Counter-personnel and counter-materiel capability investment areas include directed energy (lasers, millimeter wave and high power microwave), multi-sensory suppression/incapacitation initiatives (acoustics, optical, electro-muscular incapacitation), and other emergent technologies transitioning from coordinated JNLWP Science and Technology PE initiatives. Investments also focus on Joint and allied experimentation, exercise, demonstration and assessment of advanced component and prototype initiatives in order to assist transition of suitable and effective capabilities to both joint and allied operational applications.

The Joint Non-Lethal Weapons Directorate is designated as a R&D organization and was established by the EA to manage the day to day research and development activities of the DoD's JNLWP. 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	28.466	28.435	29.917	-	29.917
Current President's Budget	27.922	28.435	29.589	-	29.589
Total Adjustments	-0.544	0.000	-0.328	-	-0.328
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.544	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	-0.328	-	-0.328

Change Summary Explanation

The \$1.154M increase from FY 2021 to FY 2022 is due to the evolution of the Vessel Incapacitating Power Effect Radiation (VIPER) joint program that is led by JNLW as DoD's Executive Agent. FY 2022 Plan of Actions and Milestones are as follows: Complete critical design engineering and review, system safety development, Interim Interface Control Document and hardware design description, and operational assessment training material development.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy **Date:** May 2021

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>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
2319: <i>Non-Lethal Weapons</i>	598.485	27.922	28.435	29.589	-	29.589	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project develops intermediate force capabilities that minimize fatal or permanent injuries and undesired damage to property and the environment. These capabilities are designed to incapacitate or hinder movement of individuals, crowds or equipment. The availability of non-lethal weapons (NLW) allows commanders less lethal options across the range of military operations, 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Counter-Personnel Advanced Component Development and Prototypes	5.518	5.619	5.305	0.000	5.305
Articles:	-	-	-	-	-
FY 2021 Plans:					
<ul style="list-style-type: none"> - Continue maturation of counter-personnel (CP) directed energy technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue development of CP emerging technologies to support Service capability gaps and priorities as they support the Combatant Commanders. - Continue technology maturation and risk reduction of competing approaches to inform decisions for Service capability development. - Continue prototype development and assessment of advanced payloads for technological capabilities relevant to emerging counter-personnel capability gaps. - Continue coordination and requirements development for Service counter-personnel (CP) prototyping initiatives within the Joint Non-Lethal Weapons Program. - Continue Service-led CP intermediate force prototype initiatives. - Continue prototype development and demonstration for the most promising technologies employing multisensory stimuli. - Continue program management support for CP efforts. - Complete non-pyrotechnic flashbang non-developmental item (NDI) testing and high intensity light evaluation. - Initiate integration of current intermediate force capabilities into an established service platform for demonstration and prototyping purposes. 					

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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>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>- Initiate sound and light acoustic technology evaluation.</p> <p>FY 2022 Base Plans:</p> <ul style="list-style-type: none"> - Continue maturation of counter-personnel (CP) directed energy technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue development of CP emerging technologies to support Service capability gaps and priorities as they support the Combatant Commanders. - Continue technology maturation and risk reduction of competing approaches to inform decisions for Service capability development. - Continue prototype development and assessment of advanced payloads for technological capabilities relevant to emerging counter-personnel capability gaps. - Continue coordination and requirements development for Service counter-personnel (CP) prototyping initiatives within the Joint Non-Lethal Weapons Program. - Continue Service-led CP intermediate force prototype initiatives. - Continue prototype development and demonstration for the most promising technologies employing multisensory stimuli. - Continue program management support for CP efforts. - Continue integration of current intermediate force capabilities into an established service platform for demonstration and prototyping purposes. - Continue sound and light acoustic technology evaluation. - Initiate sound and light high intensity light evaluation. - Complete 9-Bang Acquisition Documentation and Approvals. <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.314M from FY 2021 to FY 2022 is due to the completion of non-pyrotechnic flashbang non-developmental item (NDI) testing and high intensity light evaluation.</p>					
<p>Title: Counter-Materiel Advanced Component Development and Prototypes</p> <p align="right">Articles:</p>	15.985	16.279	18.026	0.000	18.026
<p>FY 2021 Plans:</p> <ul style="list-style-type: none"> - Continue advanced component development and prototyping support to the Department of the Navy's candidate Maritime Vessel Stopping capability. (Vessel Stopping Prototype) 	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<ul style="list-style-type: none"> - Continue development of the conceptual design of non-lethal directed energy vessel-stopping capability, including electro-magnetic and engagement modeling, platform feasibility and integration studies, target characterization and validation. - Continue maturation of counter-materiel (CM) directed energy technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue coordination and requirements development for Service CM prototyping initiatives within the Joint Non-Lethal Weapons Program. - Continue development and assessment of Service-led CM intermediate force prototype initiatives. - Continue maturation of CM directed energy technologies to increase system efficiencies such as reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue the advanced development of CM emerging technologies to support Service capability gaps and priorities as they support the Combatant Commanders. - Continue technology maturation and risk reduction of competing approaches to inform decisions for Service capability development. - Continue prototype development and assessment of advanced payloads for technological capabilities relevant to emerging counter-materiel capability gaps. - Continue program management support for CM efforts. - Continue production qualification testing of a Service-endorsed pre-emplaced, counter-materiel vehicle stopping capability. - Complete advanced development of 40 mm CM round for USSOCOM. <p><i>FY 2022 Base Plans:</i></p> <ul style="list-style-type: none"> - Continue advanced component development and prototyping support to the Department of the Navy's candidate Maritime Vessel Stopping capability. (Vessel Stopping Prototype) - Continue development of the conceptual design of non-lethal directed energy vessel-stopping capability, including electro-magnetic and engagement modeling, platform feasibility and integration studies, target characterization and validation. - Continue maturation of counter-materiel (CM) directed energy technologies to increase system efficiencies and reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue coordination and requirements development for Service CM prototyping initiatives within the Joint Non-Lethal Weapons Program. - Continue development and assessment of Service-led CM intermediate force prototype initiatives. 					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<ul style="list-style-type: none"> - Continue maturation of CM directed energy technologies to increase system efficiencies such as reduce system size, weight and cost in preparation for transition to joint acquisition programs of record. - Continue the advanced development of CM emerging technologies to support Service capability gaps and priorities as they support the Combatant Commanders. - Continue technology maturation and risk reduction of competing approaches to inform decisions for Service capability development. - Continue prototype development and assessment of advanced payloads for technological capabilities relevant to emerging counter-materiel capability gaps. - Continue program management support for CM efforts. - Complete production qualification testing of a Service-endorsed pre-emplaced, counter-materiel vehicle stopping capability. - Complete Vessel Incapacitating Power Effect Radiation (VIPER) critical design engineering and review, system safety development, Interim Interface Control Document and hardware design description, and operational assessment (OA) training material development. <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$1.747M from FY 2021 to FY 2022 is due to increased VIPER efforts to complete critical design engineering and review, system safety development, Interim Interface Control Document and hardware design description, and OA training material development.</p>					
<p>Title: Joint and Allied Exercise, Experimentation, Demonstration and Assessment</p> <p align="right">Articles:</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> - Continue support to Combatant Commands (CCMDs) by demonstrating and assessing intermediate force capabilities in vessel interdiction and counter-migration exercises. Specifically, continue support to USEUCOM/ USAFRICOM through engagement with NATO's Maritime Interdiction Operations Training Center (MIOTC). - Continue modeling and simulation of intermediate force capabilities in warfighter training/gaming models and performance effects data collection/population to demonstrate/analyze non-lethal effects and support optimization of training. 	6.419	6.537	6.258	0.000	6.258
	-	-	-	-	-

UNCLASSIFIED

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<ul style="list-style-type: none"> - Continue evaluation of intermediate force capabilities 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. - Continue engagement with NATO on cooperative security efforts, to include providing input for Systems Analysis and Studies (SAS) Panels and NATO assessment of intermediate force capabilities in appropriate allied scenarios and exercises. - Continue interaction with Combatant Commander Staffs to evaluate emerging intermediate force capabilities and their utility in theater operations and Defense of the Homeland missions. - Continue to assess the utility, effect, and effectiveness of technologies for incapacitating personnel, clearing facilities, stopping vehicles and vessels, and denying enemy access to protected areas. - Continue to identify, test, and evaluate newly developed commercial products that may meet Joint service requirements for specific non-lethal capability set common items. - Continue program management support for Joint and Allied Exercise, Experimentation, Demonstration and Assessment efforts. - Continue support of CCMDs by demonstrating and assessing intermediate force capabilities for multiple priority mission areas, such as port opening operations; Humanitarian Assistance and Disaster Relief, Counter-Transnational Organized Crime operations; and harbor and in-transit security operations. - Complete the pre-emplaced vehicle stopping pilot program for USAF. <p><i>FY 2022 Base Plans:</i></p> <ul style="list-style-type: none"> - Continue support to Combatant Commands (CCMDs) by demonstrating and assessing intermediate force capabilities in vessel interdiction and counter-migration exercises. Specifically, continue support to USEUCOM/USAFRICOM through engagement with NATO's Maritime Interdiction Operations Training Center (MIOTC). - Continue modeling and simulation of intermediate force capabilities in warfighter training/gaming models and performance effects data collection/population to demonstrate/analyze non-lethal effects and support optimization of training. - Continue evaluation of intermediate force capabilities 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. - Continue engagement with NATO on cooperative security efforts, to include providing input for Systems Analysis and Studies (SAS) Panels and NATO assessment of intermediate force capabilities in appropriate allied scenarios and exercises. 					

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Continue interaction with Combatant Commander Staffs to evaluate emerging intermediate force capabilities and their utility in theater operations and Defense of the Homeland missions. - Continue to assess the utility, effect, and effectiveness of technologies for incapacitating personnel, clearing facilities, stopping vehicles and vessels, and denying enemy access to protected areas. - Continue to identify, test, and evaluate newly developed commercial products that may meet Joint service requirements for specific non-lethal capability set common items. - Continue program management support for Joint and Allied Exercise, Experimentation, Demonstration and Assessment efforts. - Continue support of CCMDs by demonstrating and assessing intermediate force capabilities for multiple priority mission areas, such as port opening operations; Humanitarian Assistance and Disaster Relief, Counter-Transnational Organized Crime operations; and harbor and in-transit security operations.					
<i>FY 2022 OCO Plans:</i> N/A					
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Decrease of \$0.279M from FY 2021 to FY 2022 is due to the completion of the pre-emplaced vehicle stopping pilot program for USAF.					
Accomplishments/Planned Programs Subtotals	27.922	28.435	29.589	0.000	29.589

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDTEN/0602651M/0000: <i>Joint Non-Lethal Weapons Applied Research</i>	6.155	6.316	6.468	-	6.468	-	-	-	-	-	-
• RDTEN/0603651M/3022: <i>Joint Non-Lethal Weapons Advanced Technology Development</i>	12.907	13.243	13.564	-	13.564	-	-	-	-	-	-

Remarks

UNCLASSIFIED

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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>

D. Acquisition Strategy

The JNLW Program strategy is 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 state-of-the-art technology investment, experimentation, and modeling and simulation. 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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

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>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
NLW Product Development	MIPR	ARDEC : Picatinny, NJ	59.620	2.757	Oct 2019	0.461	Oct 2020	0.708	Jan 2022	-		0.708	-	-	-
NLW Product Development	Various	NSWC : Various	56.968	6.297	Oct 2019	8.812	Oct 2020	8.693	Dec 2021	-		8.693	-	-	-
NLW Product Development	MIPR	USAF : Ft. Sam Houston AFB, TX	59.947	0.515	Oct 2019	0.365	Oct 2020	0.412	Jan 2022	-		0.412	-	-	-
NLW Product Development	Various	MCSC : Quantico, VA	35.669	0.395	Oct 2019	4.851	Oct 2020	4.640	Nov 2021	-		4.640	-	-	-
NLW Product Development	Various	Uniformed Services : Various	192.908	9.085	Oct 2019	5.090	Oct 2020	5.493	Oct 2021	-		5.493	-	-	-
Prior Year NLW Product Development	Various	Various : Various	91.741	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			496.853	19.049		19.579		19.946		-		19.946	-	-	N/A

Remarks
 Joint Program funds are prioritized and provided to 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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
NLW Support Cost	WR	NSWC : Dahlgren, VA	18.624	0.737	Oct 2019	0.268	Oct 2020	1.121	Nov 2021	-		1.121	-	-	-
Subtotal			18.624	0.737		0.268		1.121		-		1.121	-	-	N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

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Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
JNLW Management Support	Various	MCSC : Quantico, VA	42.287	8.136	Oct 2019	8.588	Oct 2020	8.522	Oct 2021	-		8.522	-	-	-
Prior Year Management Services	Various	Various : Various	40.721	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			83.008	8.136		8.588		8.522		-		8.522	-	-	N/A

Remarks
The JNLW Management Support was previously incorporated into the various cost categories instead of being displayed in the corresponding section of the R-3. The Management Services section of the R-3 now reflects the amounts for civilian salaries and contractor program management. The funding fluctuates across the R-2A categories based on the demand signals of the Services, USSOCOM, and the USCG.

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	598.485	27.922	28.435	29.589	-	29.589	-	-	N/A

Remarks
Joint Program funds are prioritized and provided to 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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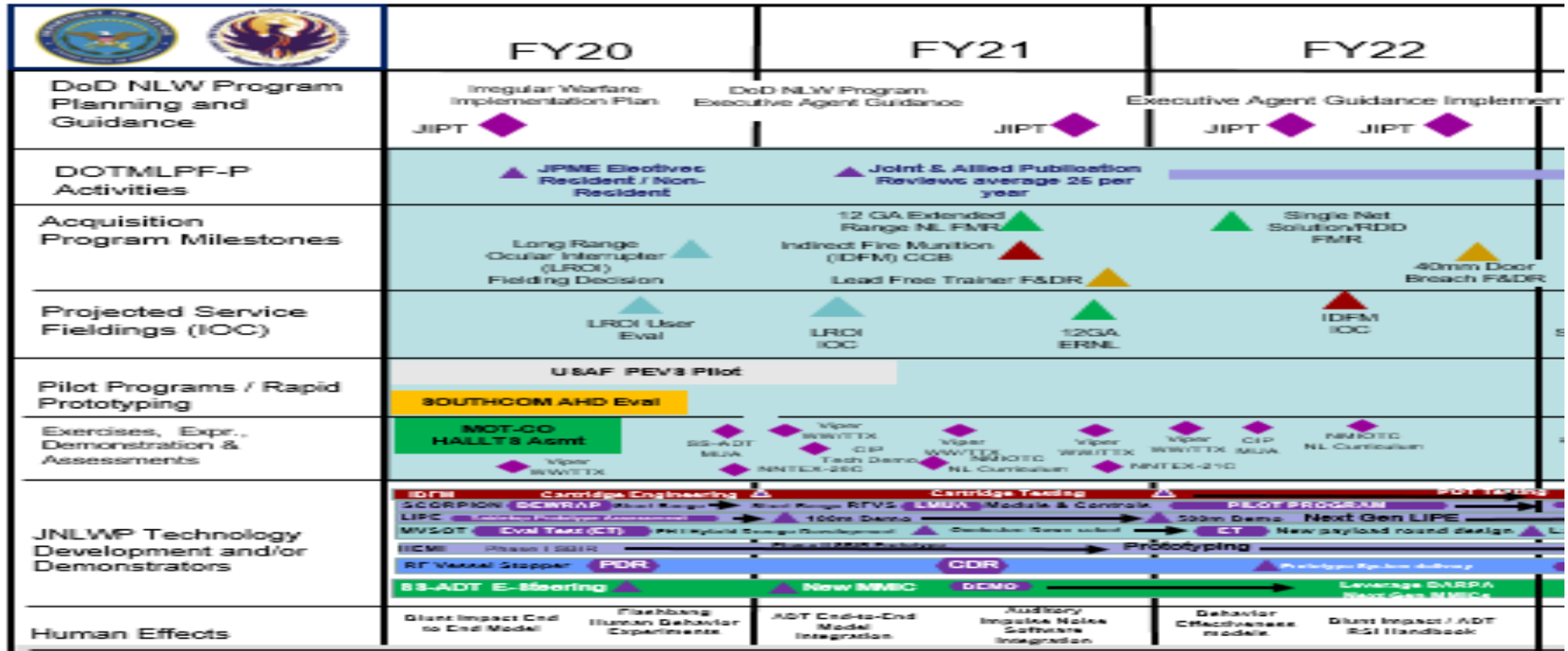
Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy

Date: May 2021

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



Lead Agency

- ▲ USMC
- ▲ USA
- ▲ USN
- ▲ USAF
- ▲ USSOCOM
- ▲ USCG

DoD NLW Program is managed by the Joint Intermediate Force Capabilities Office, a division under DC, PP&O Current as of 4 May 21

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy		Date: May 2021
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
Proj 2319				
Counter Vessel: Vessel Stopping Prototype (VSP) Technology Development: Preliminary Design Review	3	2021	3	2021
Counter Vessel: Vessel Stopping Prototype (VSP) Technology Development: Critical Design Review	2	2022	2	2022
Joint and Allied Exercise, Experimentation, Demonstration and Assessment: Pre-Emplaced Vehicle (PEV) Stopping Pilot Program	1	2021	2	2021