Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 Program Element (Number/Name) PE 0603654N *I JNT Service EOD Development*							
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
Total Program Element	656.796	35.860	44.766	47.339	-	47.339	44.845	33.963	34.471	35.168	Continuing	Continuing
0377: *JT Service Expl Ord Disp System*	381.193	10.145	12.259	16.682	-	16.682	11.456	11.560	11.769	12.009	Continuing	Continuing
1317: *Expeditionary Diving Systems*	130.415	4.016	4.321	5.231	-	5.231	2.379	2.422	2.387	2.435	Continuing	Continuing
3177: *Joint Counter Radio-Controlled IED Elec Warfare*	136.495	10.716	9.510	9.384	-	9.384	9.530	10.096	10.287	10.490	Continuing	Continuing
3447: *Mine Expeditionary Response Vehicle (MESR)*	8.693	10.983	18.676	16.042	-	16.042	21.480	9.885	10.028	10.234	Continuing	Continuing

Note

Maritime Expeditionary Standoff Response (MESR) was realigned from Project 4023 into new Project 3447 beginning in FY 2022. Project 4023 Expeditionary Underwater Systems was relocated from PE 0603654N to PE 0604028N beginning in FY 2022.

A. Mission Description and Budget Item Justification

This is a Joint Service Program.

This program provides for the development of Explosive Ordnance Disposal tools and equipment aimed at meeting National Defense Strategy guidance to build a more lethal force. The responsibility is assigned to the Navy as single service manager, per Department of Defense Directive 5160.62E of 8 May, 2011, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program.

Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the tools and equipment designed for modularity, scalability, and flexibility, while maintaining readiness to respond to contingencies and ensure long-term warfighting readiness.

This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance.

This program also supports the National Defense Strategy's objective of preventing terrorist and near peer operations against the US, allies, and partners by providing for the research and development of Electronic Warfare (EW) systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. It utilizes Joint

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 Program Element (Number/Name)** PE 0603654N *I JNT Service EOD Development*

requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations; provides a Joint Counter RCIED EW (CREW) development of equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with the evolving RCIED global threat.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	36.304	44.766	34.069	-	34.069
Current President's Budget	35.860	44.766	47.339	-	47.339
Total Adjustments	-0.444	0.000	13.270	-	13.270
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.017	0.000			
• SBIR/STTR Transfer	-0.427	0.000			
• Program Adjustments	0.000	0.000	14.070	-	14.070
• Rate/Misc Adjustments	0.000	0.000	-0.800	-	-0.800

Change Summary Explanation

FY 2023: +$4M Automated Machine Learning for MCM Ops (AMMO), -$0.427M for execution realignment. -$.017M for cancelled accounts liabilities.

FY 2024: -$2.0M Terminate Hemlock Program of Record; +$0.864M rate adjustments. +$6.59M to address MESR Deep Water Response Proof of Concept efforts.

FY 2025: +$13.270M: +$3.9M to increase Maritime Expeditionary Response capabilities in Deep Water. +$5.0M for Standoff Render Safe & Disrupt FoS. +$2.17M JCREW Tech Insertion/Tech Refresh; -$0.622 Strident decrease for transition to full rate production, +0.261 Detonation systems increased T&E requirements); +$3.000M AMMO efforts. -$0.605M rate adjustments

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 0377 / *JT Service Expl Ord Disp System*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
0377: *JT Service Expl Ord Disp System*	381.193	10.145	12.259	16.682	-	16.682	11.456	11.560	11.769	12.009	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Program Element (PE) Project (0377) provides funding for the detailed design, development, risk mitigation, issue resolution, integrations, test, test equipment, simulations and technology insertion of specialized equipment, tools and assessment of accessories that expand range of military operations required to support DoD's only Joint Explosive Ordnance Disposal (EOD) programs.

EOD exclusively executes world-wide missions for detection/location, identification, render-safe, recovery, field and laboratory evaluation, and disposal of hazards and unexploded ordnance (UXO) that is a threat to military operations, installations, personnel, or material. UXO includes foreign and domestic, both conventional and non-conventional, including Improvised Explosive Devices (IEDs) and devices using radiological and biological means with or without explosives.

As defined in DOD Directive 5160.62E, assigns the Secretary of the Navy (SECNAV) the responsibility of Executive Agent for Explosive Ordnance Disposal (EOD) Technology and Training (T&T) to include the Joint Service Explosive Ordnance Disposal Research and Development Program. EOD programs are designed to reduce the EOD operator's exposure to explosive hazards or limit the risk to an acceptable level. EOD operations range from hand entry of explosive devices by EOD technicians to robotic actions and sensing capabilities that provide a safe distance of the explosive hazard at a greatly reduced cost to trained and experienced EOD operators.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: ANALYSIS OF ALTERNATIVES/ EOD MODERNIZATION	10.145	12.259	16.682	0.000	16.682
Articles:	-	-	-	-	-
FY 2024 Plans: FY 2024 Plans for EOD Modernization will build upon the FY23 plan and advance EOD technology to rapidly assess and field capability solutions through a sets, kits, and outfits approach. Leverage FY23 prototype development, testing, user evaluation, and a family of systems (FoS) approach to close identified capability gaps in EOD Modernization priorities to include: Standoff Render Safe and Disrupt (SRSD), Rapid Area Detection (RAD) formerly Rapid Large Area Clearance (RLAC); Rapid Large Area Clearance (RLAC) Joint Capability Technology Demonstration (JCTD), Access Buried Munitions (ABM), Timed Firing Device, and integration of EOD unmanned systems sensors and payloads. Plans include capability development, prototype testing, user					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 0377 / *JT Service Expl Ord Disp System*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
evaluation, and transition of SOF equipment. Funding will support the continuation of EOD Modernization efforts to support Joint EOD forces. ***FY 2025 Base Plans:*** FY 2025 Plans for EOD Modernization continues to build upon the FY24 plan and advance EOD technology to rapidly assess and field capability solutions to the EOD warfighter. Leverage FY24 prototype development, testing, user evaluation, and a Family of Systems (FoS) approach to close identified capability gaps in EOD Modernization priorities to include: Standoff Render Safe and Disrupt (SRSD), Rapid Area Detection (RAD); Rapid Large Area Clearance (RLAC) Joint Capability Technology Demonstration (JCTD) transition, Timed Firing Device, and integration of EOD unmanned systems sensors and payloads. Plans include capability development, prototype testing, user evaluation, and transition of identified Joint EOD configuration managed equipment. Funding will support the continuation of EOD Modernization efforts to support Joint EOD forces. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2024 ($12,259) to FY 2025 ($16,776) the increase is attributed to the addition of Standoff Render Safe and Disrupt (SRSD) (Disrupt) technology development, capability maturation, risk reduction and initial manufacturing production of an integrated stand-off Disrupt system to rapidly disrupt unexploded ordnance at distance. Further development and user assessment of JCTD enabled capabilities during this period will result the transition of common Joint EOD technologies in support of the EOD Modernization program.					
Accomplishments/Planned Programs Subtotals	10.145	12.259	16.682	0.000	16.682

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Joint Service acquisition strategies maximize, to the greatest extent, evolutionary open architecture and modular strategy for rapid acquisition of mature technology for the user. The evolutionary approach delivers baseline capability and subsequent increments, recognizing up front the need for future capability improvements. Each technology insertion is a militarily useful and supportable operational capability that can be developed, produced, deployed, and sustained. The evolutionary strategy allows for rapid block upgrades, pre-planned product improvements, new accessories that expand range of military operations that provide a significant increase in operational capability and improvements at the modular level and encourages competition and second sources to lower life cycle costs. Modeling and simulation can

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 0377 / *JT Service Expl Ord Disp System*

verify system level compliance in a laboratory, greatly reducing the cost to conduct expensive range testing. EOD Modernization increases technology advances for more capable diagnostics and render-safe systems and EOD tools. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 0377 / *JT Service Expl Ord Disp System*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	NSWCIHEODTD : Indian Head, MD	202.815	1.560	Nov 2022	5.068	Dec 2023	8.682	Dec 2024	-		8.682	Continuing	Continuing	Continuing
Primary Hardware Development	C/FFP	John Hopkins, MD : Laurel, MD	13.375	1.475	Oct 2022	1.140	Dec 2023	0.507	Dec 2024	-		0.507	0.000	16.497	-
Integrated Logistics Support	WR	NSWCIHEODTD : Indian Head, MD	50.190	0.301	Nov 2022	0.309	Dec 2023	0.315	Dec 2024	-		0.315	Continuing	Continuing	Continuing
Primary Hardware Development	MIPR	Dept of Energy : Albuquerque, NM	2.023	1.204	Nov 2022	0.000	Dec 2023	0.464	Dec 2024	-		0.464	0.000	3.691	-
Primary Hardware Development	Various	ONR : Washington, DC	4.900	1.280	Nov 2022	0.000	Dec 2023	0.000		-		0.000	0.000	6.180	-
Primary Hardware Development	WR	NSWC Crane Division : Crane, IN	0.000	0.000	Nov 2022	0.000	Dec 2023	0.000	Nov 2024	-		0.000	0.000	0.000	-
Primary Hardware Development	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000	Nov 2022	0.000	Dec 2023	0.000		-		0.000	0.000	0.000	-
Primary Hardware Development	WR	NSWC Panama City : Panama City, FL	0.255	0.000		0.000		0.844	Feb 2025	-		0.844	0.000	1.099	-
		Subtotal	273.558	5.820		6.517		10.812		-		10.812	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWCIHEODTD : Indian Head, MD	84.074	3.206	Nov 2022	2.778	Dec 2023	1.639	Dec 2024	-		1.639	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	NSWCIHEODTD : Indian Head, MD	11.808	0.073	Nov 2022	0.212	Dec 2023	0.224	Dec 2024	-		0.224	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	C/FFP	NRL : Washington, DC	0.256	0.000	Nov 2022	0.000		0.000		-		0.000	0.000	0.256	-
Developmental Test & Evaluation (DT&E)	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.550	Nov 2022	1.865	Oct 2023	2.121	Nov 2024	-		2.121	0.000	4.536	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 0377 / *JT Service Expl Ord Disp System*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC Crane Division : Crane, IN	0.000	0.345	Nov 2022	0.887	Dec 2023	1.886	Dec 2024	-		1.886	0.000	3.118	-
Developmental Test & Evaluation (DT&E)	C/BA	Dept of Energy : Albuquerque, NM	0.000	0.151	Dec 2022	0.000		0.000		-		0.000	0.000	0.151	-
		Subtotal	96.138	4.325		5.742		5.870		-		5.870	Continuing	Continuing	N/A

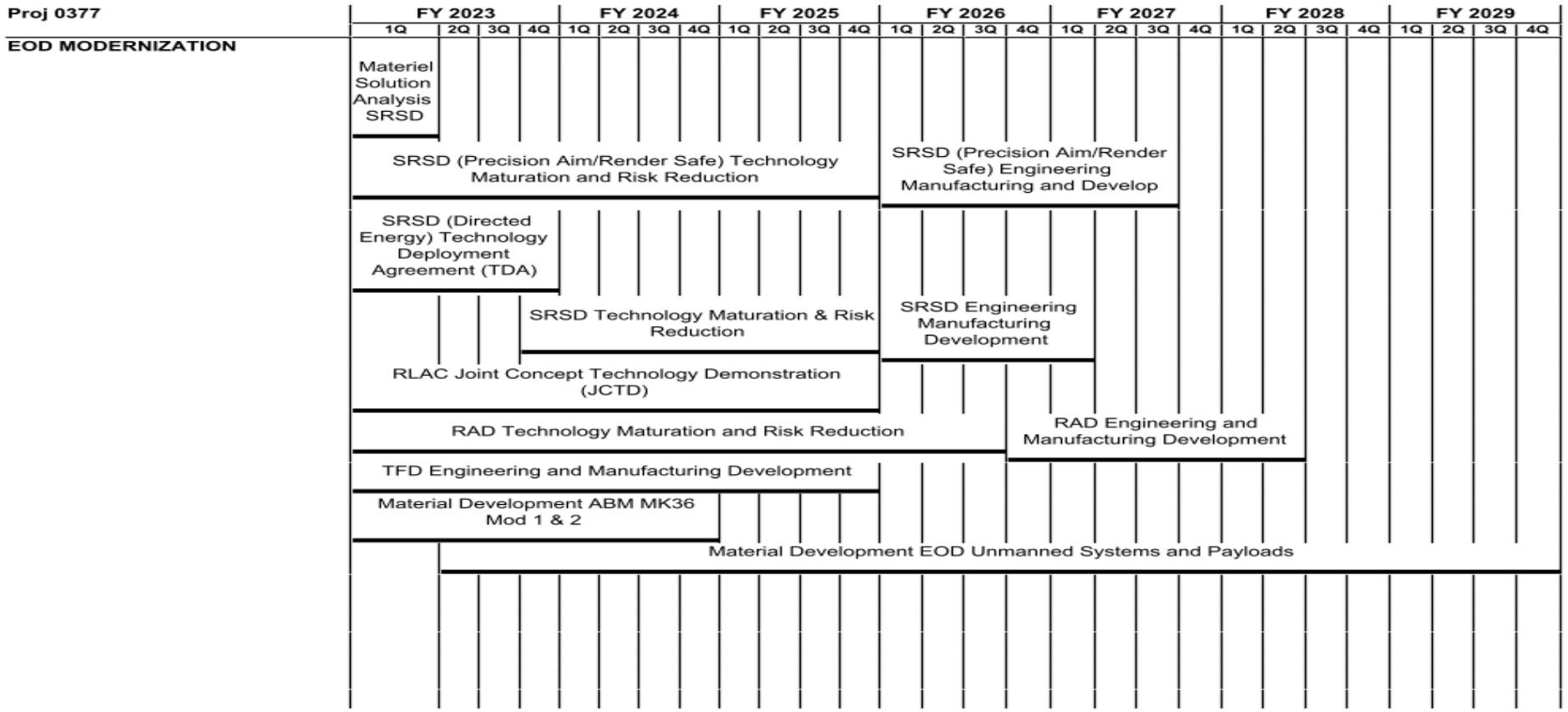
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	NSWCIHEODTD : Indian Head, MD	11.497	0.000		0.000		0.000	Nov 2024	-		0.000	Continuing	Continuing	Continuing
Program Management Support	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		0.000		0.000	Nov 2024	-		0.000	0.000	0.000	-
		Subtotal	11.497	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	381.193	10.145		12.259		16.682		-		16.682	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 0377 / *JT Service Expl Ord Disp System*



2025PB - 0603654N - 0377

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 0377 / *JT Service Expl Ord Disp System*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 0377				
EOD MODERNIZATION: Materiel Solution Analysis Standoff Render Safe and Disrupt	1	2023	1	2023
EOD MODERNIZATION: Standoff Render Safe and Disrupt (Precision Aim/Render Safe) Technology Maturation and Risk Reduction	1	2023	4	2025
EOD MODERNIZATION: Standoff Render Safe and Disrupt (Precision Aim/Render Safe) Engineering Manufacturing and Development	1	2026	3	2027
EOD MODERNIZATION: Standoff Render Safe and Disrupt (SRSD) (Directed Energy) Technology Deployment Agreement (TDA)	1	2023	4	2023
EOD MODERNIZATION: Standoff Render Safe and Disrupt (SRSD) (Disrupt) Technology Maturation and Risk Reduction	4	2023	4	2025
EOD MODERNIZATION: Standoff Render Safe and Disrupt (SRSD) (Disrupt) Engineering Manufacturing Development	1	2026	1	2027
EOD MODERNIZATION: Rapid Large Area Clearance (RLAC) Joint Concept Technology Demonstration (JCTD)	1	2023	4	2025
EOD MODERNIZATION: Rapid Area Detection (RAD) Technology Maturation and Risk Reduction	1	2023	3	2026
EOD MODERNIZATION: Rapid Area Detection (RAD) Engineering and Manufacturing Development	4	2026	2	2028
EOD MODERNIZATION: Timed Firing Device (TFD) Engineering and Manufacturing Development	1	2023	4	2025
EOD MODERNIZATION: Material Development Access Buried Munitions	1	2023	4	2024
EOD MODERNIZATION: Material Development EOD Unmanned Systems and Payloads	2	2023	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 1317 / *Expeditionary Diving Systems*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
1317: *Expeditionary Diving Systems*	130.415	4.016	4.321	5.231	-	5.231	2.379	2.422	2.387	2.435	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

These resources support the development of equipment for the Navy's only comprehensive expeditionary detect to engage and exploitation Mine Countermeasures (MCM) capability. Specifically, it provides for development of Diver Safety/Life Support Equipment, Advanced Diver Integrated Sensors and Command Detonation Systems to support Navy Explosive Ordnance Disposal (EOD) underwater operations, expeditionary salvage, and Expeditionary MCM Company operations. The equipment must have inherently low acoustic and magnetic signatures in order to allow the EOD divers to safely detect, reacquire, approach, render-safe, recover, exploit, and dispose of underwater explosive threats to include sea mines, limpet mines, underwater improvised explosive devices, and unexploded ordnance.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: DIVER SAFETY & LIFE SUPPORT SYSTEMS	2.502	1.750	3.021	0.000	3.021
Articles:	-	-	-	-	-
Description: Diver Safety & Life Support Systems: Develop diving equipment and diver safety tools to include life support systems for Explosive Ordnance Disposal (EOD), Expeditionary Mine Countermeasures (ExMCM), and Mobile Diving & Salvage Units (MDSU) operations. Specific tools include, but are not limited to: Underwater Breathing Apparatus (UBA), specialized dive masks, heads-up displays, emergency life support systems, and the capability to train divers and to evaluate ExMCM tools, tactics and procedures including control of signatures with regard to influence fired ordnance.					
FY 2024 Plans: FY24 efforts will focus on the initiation of the unmanned and environmental testing regimens of the production representative MMUBA units. These events are needed to achieve full system safety certification of these units. The combined efforts of unmanned, environmental and signature assessment to ultimately support a NAVSEA 00C Certification in accordance with NAVSEA SS800-AG-MAN-010 of the selected MMUBA. A logistics assessment will be conducted in FY24 to verify program lifecycle sustainment plans. These combined results of these evaluations will determine the operational effectiveness and suitability characteristics of the MMUBA and will provide the Objective Quality Evidence (OQE) needed to enter full rate production.					
FY 2025 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY25 efforts will focus on completion of the unmanned and environmental testing regimens and initiation of the manned testing of the production representative MMUBA units. These events are needed to achieve full system safety certification of these units. The combined efforts of unmanned, environmental and signature assessment, and manned testing are designed to ultimately support a NAVSEA 00C Certification in accordance with NAVSEA SS800-AG-MAN-010 of the selected MMUBA. These combined results of these evaluations will determine the operational effectiveness and suitability characteristics of the MMUBA and will provide the Objective Quality Evidence (OQE) needed to enter full rate production. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase supports the UBA testing criteria necessary to complete the certification required by NAVSEA Diving System Certification Authority.					
Title: ADVANCED DIVER INTEGRATED SENSORS (STRIDENT) ***Articles:*** ***Description:*** Develop Advanced Diver Integrated Sensors equipment (STRIDENT) to enable EOD and MDSU ability to detect, access, neutralize and gather intelligence on underwater targets of interest in support of Expeditionary Mine Countermeasures (ExMCM) and Diving and Salvage missions. Requirements include the validated STRIDENT TLR. ***FY 2024 Plans:*** FY24 efforts will focus on delivery and acceptance testing of the initial production units to verify compliance with contractual performance requirements. Upon completion of acceptance testing and resolution of any remaining post-production issues, full rate production can commence. Acceptance testing will include magnetic signature characterization and testing in accordance with MIL-DTL-19595D. Fleet deliveries will commence in FY24. ***FY 2025 Base Plans:*** FY25 efforts will focus on continuation of production acceptance testing, including magnetic screening, resolution of any remaining post-production issues, and continued execution of full rate production. Fleet feedback will be solicited to identify any post-production engineering change requirements. ***FY 2025 OCO Plans:***	1.065 -	0.738 -	0.116 -	0.000 -	0.116 -

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease reflects completion of all major developmental efforts for STRIDENT and transition to full rate production activities.					
Title: COMMAND DETONATION SYSTEMS	0.449	1.833	2.094	0.000	2.094
Articles:	-	-	-	-	-
Description: Develops next generation of remote underwater firing device to enable EOD technicians to neutralize or otherwise mitigate underwater ordnance hazards from a safe standoff distance. This capability enables a command firing signal to travel from the surface to an in-water receiver to detonate explosive tools ISO ExMCM missions. Improvements from previous underwater firing systems include the ability to encrypt the firing signal. Requirements for this system are defined by the Remote Underwater Firing Initiation System (RUFIS) CDD 992-95-23 approved 7 March 2023. ***FY 2024 Plans:*** FY24 events will include release of a Commercial Solutions Offering (CSO) based on the CONOPS and performance specification leading to Prototype OTA award(s). Delivery of prototypes as a result of the OTA award(s) are anticipated in 4QFY24. Initial performance testing will commence in 4QFY24 upon delivery of initial prototypes. ***FY 2025 Base Plans:*** FY25 events will continue to evaluate the performance of firing system prototypes against the RUFIS performance specification. Interoperability with the existing Mk 66 Electrical Output Base Coupling (EOBC) will be demonstrated and evaluated. Initial Weapon System Explosive Safety Review Board (WSESRB) interaction will commence. Interoperability with planned delivery platforms (ROV and Diver delivery) will be demonstrated and evaluated. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase due to developmental T&E planned in FY 2025. T&E required for integration and development of Deepwater capabilities that would be utilized with remotely operated vehicles (ROVs)					
Accomplishments/Planned Programs Subtotals	4.016	4.321	5.231	0.000	5.231

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/0977a: *Underwater EOD Program (Cost Code UQ034)*	23.084	11.060	9.314	-	9.314	0.000	0.000	0.000	0.000	0.000	94.704

Remarks

D. Acquisition Strategy

Analysis of Alternatives (AOA) studies and/or alternative system reviews (ASRs) are always conducted prior to the initiation of new sub-projects. The AOA/ASR processes address and emphasize acquisition strategies of the most cost-effective solution over the sub-projects life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included. Maximum use of innovative contracting mechanisms will be assessed and pursued where applicable and in the best interest of the Navy. For example, this program is executing two of its acquisition efforts through the abbreviated acquisition program (AAP) authorities to accelerate fielding of effective and suitable materiel solutions to the fleet. The STRIDENT and MMUBA programs transitioned from Middle Tier of Acquisition (MTA) programs to AAP programs on Feb 6th and May 9th, 2023.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 1317 / *Expeditionary Diving Systems*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	Multiple Activities : Not Specified	46.824	0.322	Nov 2022	0.370	Nov 2023	0.230	Nov 2024	-		0.230	Continuing	Continuing	Continuing
Software Development	WR	Multiple Activites : Not Specified	7.256	0.212	Nov 2022	0.276	Nov 2023	0.136	Nov 2024	-		0.136	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWCIHEODTD : Indian Head, MD	8.408	0.164	Nov 2022	0.193	Nov 2023	0.084	Nov 2024	-		0.084	0.000	8.849	-
ILS	WR	Multiple Activities : Not Specified	11.916	0.000		0.000		0.000		-		0.000	0.000	11.916	-
Systems Engineering	WR	NSWC : Panama City	5.952	0.537	Nov 2022	0.577	Nov 2023	0.309	Nov 2024	-		0.309	Continuing	Continuing	Continuing
Systems Engineering	WR	NIWC : San Diego	7.700	0.538	Nov 2022	0.588	Nov 2023	0.310	Nov 2024	-		0.310	Continuing	Continuing	Continuing
		Subtotal	88.056	1.773		2.004		1.069		-		1.069	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support	C/CPFF	CYDECOR : Arlington, VA	9.815	0.425	Nov 2022	0.459	Nov 2023	0.348	Nov 2024	-		0.348	Continuing	Continuing	Continuing
		Subtotal	9.815	0.425		0.459		0.348		-		0.348	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	Multiple Activities : Not Specified	12.501	1.406	Nov 2022	1.422	Nov 2023	3.645	Nov 2024	-		3.645	Continuing	Continuing	Continuing
		Subtotal	12.501	1.406		1.422		3.645		-		3.645	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 1317 / *Expeditionary Diving Systems*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	NSWCIHEODTD : Indian Head, MD	13.025	0.412	Nov 2022	0.436	Nov 2023	0.169	Nov 2024	-		0.169	0.000	14.042	-
Miscellaneous	WR	NSWC, Activities : Not Specified	7.005	0.000		0.000		0.000		-		0.000	0.000	7.005	-
Acquisition Workforce Fund	Various	Various : Various	0.013	0.000		0.000		0.000		-		0.000	0.000	0.013	-
		Subtotal	20.043	0.412		0.436		0.169		-		0.169	0.000	21.060	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	130.415	4.016		4.321		5.231		-		5.231	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

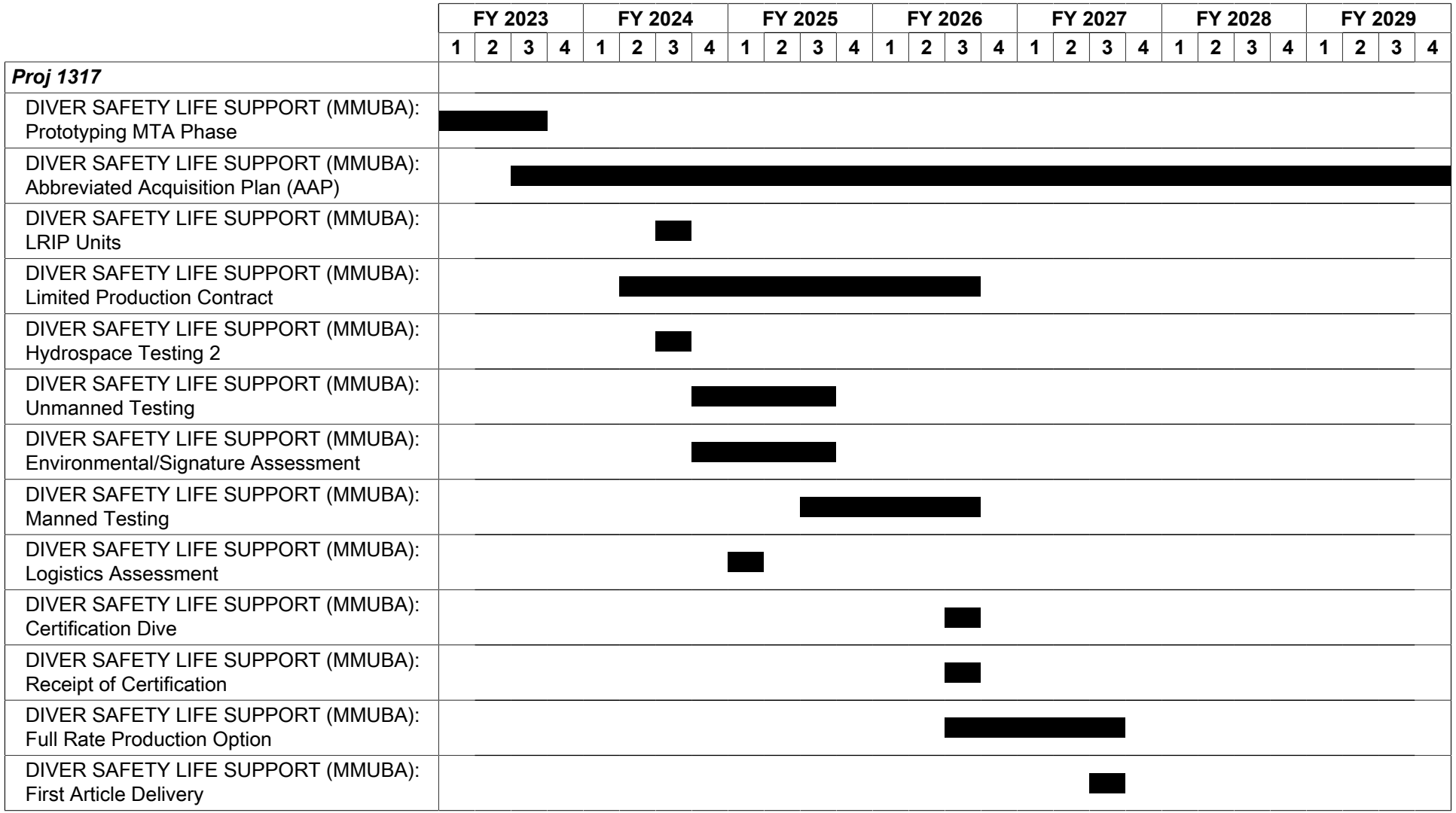


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

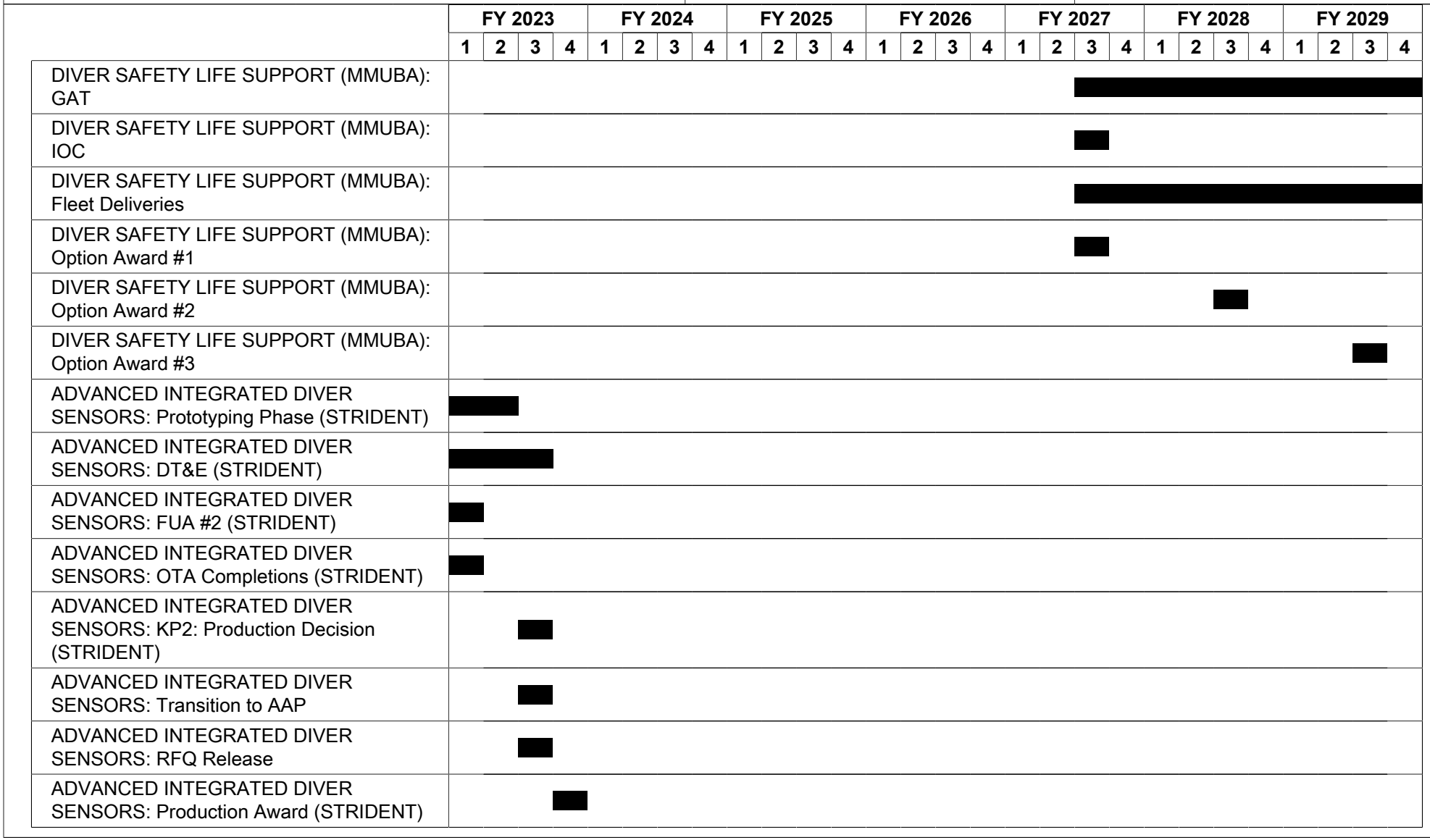


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

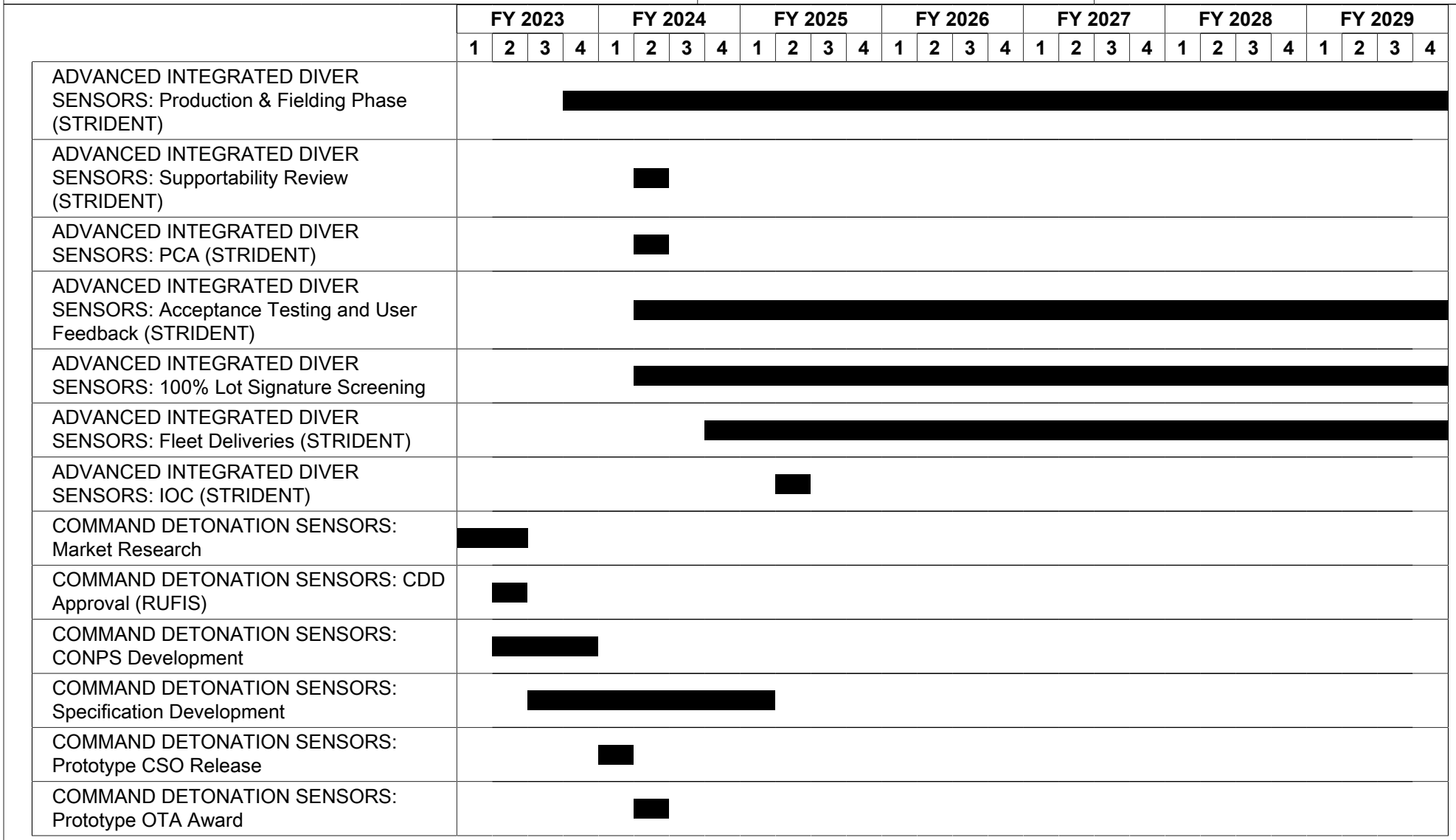


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

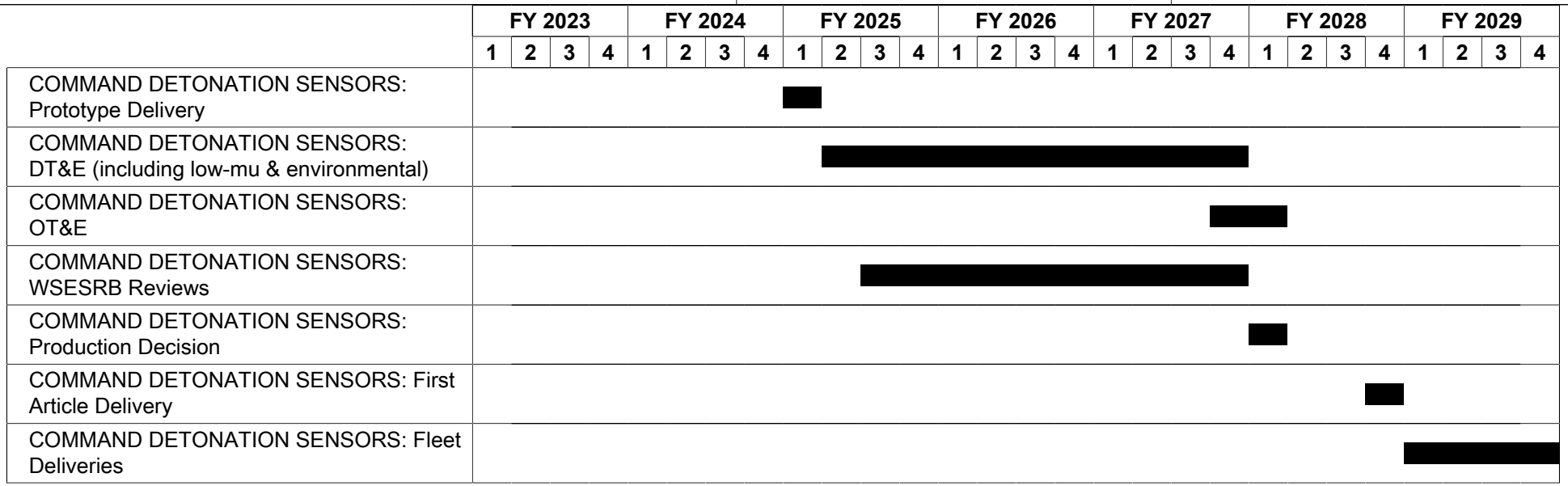


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 1317				
DIVER SAFETY LIFE SUPPORT (MMUBA): Prototyping MTA Phase	1	2023	3	2023
DIVER SAFETY LIFE SUPPORT (MMUBA): Abbreviated Acquisition Plan (AAP)	3	2023	4	2029
DIVER SAFETY LIFE SUPPORT (MMUBA): LRIP Units	3	2024	3	2024
DIVER SAFETY LIFE SUPPORT (MMUBA): Limited Production Contract	2	2024	3	2026
DIVER SAFETY LIFE SUPPORT (MMUBA): Hydrospace Testing 2	3	2024	3	2024
DIVER SAFETY LIFE SUPPORT (MMUBA): Unmanned Testing	4	2024	3	2025
DIVER SAFETY LIFE SUPPORT (MMUBA): Environmental/Signature Assessment	4	2024	3	2025
DIVER SAFETY LIFE SUPPORT (MMUBA): Manned Testing	3	2025	3	2026
DIVER SAFETY LIFE SUPPORT (MMUBA): Logistics Assessment	1	2025	1	2025
DIVER SAFETY LIFE SUPPORT (MMUBA): Certification Dive	3	2026	3	2026
DIVER SAFETY LIFE SUPPORT (MMUBA): Receipt of Certification	3	2026	3	2026
DIVER SAFETY LIFE SUPPORT (MMUBA): Full Rate Production Option	3	2026	3	2027
DIVER SAFETY LIFE SUPPORT (MMUBA): First Article Delivery	3	2027	3	2027
DIVER SAFETY LIFE SUPPORT (MMUBA): GAT	3	2027	4	2029
DIVER SAFETY LIFE SUPPORT (MMUBA): IOC	3	2027	3	2027
DIVER SAFETY LIFE SUPPORT (MMUBA): Fleet Deliveries	3	2027	4	2029
DIVER SAFETY LIFE SUPPORT (MMUBA): Option Award #1	3	2027	3	2027
DIVER SAFETY LIFE SUPPORT (MMUBA): Option Award #2	3	2028	3	2028
DIVER SAFETY LIFE SUPPORT (MMUBA): Option Award #3	3	2029	3	2029
ADVANCED INTEGRATED DIVER SENSORS: Prototyping Phase (STRIDENT)	1	2023	2	2023
ADVANCED INTEGRATED DIVER SENSORS: DT&E (STRIDENT)	1	2023	3	2023

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
ADVANCED INTEGRATED DIVER SENSORS: FUA #2 (STRIDENT)	1	2023	1	2023
ADVANCED INTEGRATED DIVER SENSORS: OTA Completions (STRIDENT)	1	2023	1	2023
ADVANCED INTEGRATED DIVER SENSORS: KP2: Production Decision (STRIDENT)	3	2023	3	2023
ADVANCED INTEGRATED DIVER SENSORS: Transition to AAP	3	2023	3	2023
ADVANCED INTEGRATED DIVER SENSORS: RFQ Release	3	2023	3	2023
ADVANCED INTEGRATED DIVER SENSORS: Production Award (STRIDENT)	4	2023	4	2023
ADVANCED INTEGRATED DIVER SENSORS: Production & Fielding Phase (STRIDENT)	4	2023	4	2029
ADVANCED INTEGRATED DIVER SENSORS: Supportability Review (STRIDENT)	2	2024	2	2024
ADVANCED INTEGRATED DIVER SENSORS: PCA (STRIDENT)	2	2024	2	2024
ADVANCED INTEGRATED DIVER SENSORS: Acceptance Testing and User Feedback (STRIDENT)	2	2024	4	2029
ADVANCED INTEGRATED DIVER SENSORS: 100% Lot Signature Screening	2	2024	4	2029
ADVANCED INTEGRATED DIVER SENSORS: Fleet Deliveries (STRIDENT)	4	2024	4	2029
ADVANCED INTEGRATED DIVER SENSORS: IOC (STRIDENT)	2	2025	2	2025
COMMAND DETONATION SENSORS: Market Research	1	2023	2	2023
COMMAND DETONATION SENSORS: CDD Approval (RUFIS)	2	2023	2	2023
COMMAND DETONATION SENSORS: CONPS Development	2	2023	4	2023
COMMAND DETONATION SENSORS: Specification Development	3	2023	1	2025
COMMAND DETONATION SENSORS: Prototype CSO Release	1	2024	1	2024
COMMAND DETONATION SENSORS: Prototype OTA Award	2	2024	2	2024
COMMAND DETONATION SENSORS: Prototype Delivery	1	2025	1	2025
COMMAND DETONATION SENSORS: DT&E (including low-mu & environmental)	2	2025	4	2027
COMMAND DETONATION SENSORS: OT&E	4	2027	1	2028
COMMAND DETONATION SENSORS: WSESRB Reviews	3	2025	4	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 1317 / *Expeditionary Diving Systems*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
COMMAND DETONATION SENSORS: Production Decision	1	2028	1	2028
COMMAND DETONATION SENSORS: First Article Delivery	4	2028	4	2028
COMMAND DETONATION SENSORS: Fleet Deliveries	1	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*	

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
3177: *Joint Counter Radio-Controlled IED Elec Warfare*	136.495	10.716	9.510	9.384	-	9.384	9.530	10.096	10.287	10.490	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Funding for the DRAKE Counter Unmanned Aircraft Systems (CUAS) moved to PE 0604636N/Project 2073 beginning in FY23.

A. Mission Description and Budget Item Justification

This project supports the defense objective of preventing terrorist and near peer operations against the US, allies, and partners. It provides for the research and development of Electronic Warfare (EW) systems, equipment, procedures, and tactical aids for all military services to counter the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. It utilizes Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations, and develops equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with the evolving global RCIED threat.

Joint Counter RCIED electronic Warfare (JCREW), Increment 1 Block 1 (I1B1) is the next generation of counter RCIED system of systems. JCREW includes fixed site, mounted and dismounted units, which provide countermeasures against the global RCIED threat. Key system design features include significant performance increases over current legacy systems, a modular open architecture system design to facilitate improvements to address current and future advanced threats, robust information assurance and security, and is net-capable for improved Communications and Control (C2). JCREW I1B1 supports global deployment and sustainment for all combatant commands providing increased protection to Warfighter against the evolving worldwide RCIED threats. This project also provides for the research, development, and systems engineering of related CREW systems, providing capability improvements to fielded systems based on ever-changing RCIED threats against EOD technicians. And it provides for research, development, and systems engineering of electronic forensic capabilities related to the technical exploitation of asymmetric threats, including RCIEDs, unmanned systems, and underwater mines. The information generated is used to increase the performance of CREW and other counter-IED systems, as well as enable development of new countermeasure capabilities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Joint Counter Radio-Controlled IED Elec Warfare	10.250	9.030	9.384	0.000	9.384
Articles:	-	-	-	-	-
Description: Supports the development, integration and test of Technology Insertion hardware, software, and advanced techniques into JCREW systems. Technology Insertion candidates include Office of Naval Research (ONR) sponsored technologies ready for transition to JCREW including the ENabling Dynamic Operational RF (ENDOR) Future Naval Capability (FNC); and techniques, hardware and software performance improvements					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
developed by United States Government (USG) laboratories, Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), and the JCREW prime contractor. Analysis of Alternatives (AoA) will be conducted to evaluate and select Tech Insertion candidates based on technical maturity, cost, and performance. Hardware and software updates will be integrated, tested, and implemented into CREW systems through Engineering Change Proposals (ECPs). Develop CREW load sets to remain current with continually changing CONUS and OCONUS threats. Develop hardware and software capabilities to enable enhanced cyber and electronics forensics and exploitation of evolving RCIED threats. ***FY 2024 Plans:*** Complete technology insertion package 4 development and test. Perform technology insertion package 5 analysis of alternatives and begin development. Continue to develop, integrate, test, field hardware / software upgrades and advanced techniques for JCREW systems in support of technology insertion and technology refresh efforts to address evolving JCREW threats. ***FY 2025 Base Plans:*** Continue work to implement technical insertion package 5, analysis of alternatives for Ubiquitous Edge, and frequency extension to keep pace with emerging threats. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase of $354K to restore JCREW Operations and Maintenance Technical Insertion/Technical Refresh.					
Title: EOD CREW	0.466	0.480	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: Provide systems engineering support for EOD CREW systems. Continue to refine and validate AN/PLT-6(V)1 requirements and support Army testing and evaluation efforts. Collaborate with US Army to perform testing and evaluation on AN/PLT-6(V)1 prototype. ***FY 2025 Base Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** AN/PLT-5 has been replaced by JCREW I1B1 dismounted system, all updates will be covered under the JCREW system. AN/PLT-4 is being replaced by AN/PLT-6(V)1 and not require any RDTE funds.					
Accomplishments/Planned Programs Subtotals	10.716	9.510	9.384	0.000	9.384

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/5509(b): *Explosive Ordnance Disposal Equip*	20.912	20.931	0.950	-	0.950	0.000	0.000	0.000	0.000	0.000	206.567

Remarks

D. Acquisition Strategy

Develop, integrate, test, and field hardware and software upgrades, and advanced techniques in JCREW systems through the JCREW Technology Insertion and Technology Refresh process. Technology insertion candidates include the Office of Naval Research (ONR) the ENabling Dynamic Operational RF (ENDOR) Future Naval Capability (FNC); and techniques, hardware and software performance improvements developed by United States Government (USG) laboratories, Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), and the JCREW prime contractor. Analysis of Alternatives (AoA) will be conducted to evaluate and select Tech Insertion candidates based on technical maturity, cost, and performance. Hardware and software updates will be integrated, tested, and implemented in JCREW via Engineering Change Proposals (ECPs).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/FFP	Northrop Grumman/ : San Diego, CA	25.197	2.246	Jan 2023	2.062	Jan 2024	2.055	Jan 2025	-		2.055	Continuing	Continuing	Continuing
Systems Engineering	C/FFP	Northrop Grumman : San Diego, CA	14.077	1.394	Jan 2023	1.036	Jan 2024	1.030	Jan 2025	-		1.030	Continuing	Continuing	Continuing
Software Development	C/FFP	Northrop Grumman : San Diego, CA	15.610	1.489	Jan 2023	1.120	Jan 2024	1.115	Jan 2025	-		1.115	Continuing	Continuing	Continuing
System Integration	C/FFP	Northrop Grumman : San Diego, CA	9.561	0.963	Jan 2023	0.768	Jan 2024	0.760	Jan 2025	-		0.760	Continuing	Continuing	Continuing
		Subtotal	64.445	6.092		4.986		4.960		-		4.960	Continuing	Continuing	N/A

Remarks

FY23 to FY24 decrease due to removal of CUAS product development into a new budget line.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Loadset Development	Various	JHU/APL : Laurel, MD	11.055	0.792	Nov 2022	0.740	Nov 2023	0.731	Nov 2024	-		0.731	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Various	26.709	1.804	Nov 2022	1.632	Nov 2023	1.624	Nov 2024	-		1.624	Continuing	Continuing	Continuing
Program Management Support	WR	IHEODTD : Indian Head, MD	3.949	0.201	Nov 2022	0.290	Nov 2023	0.235	Nov 2024	-		0.235	Continuing	Continuing	Continuing
		Subtotal	41.713	2.797		2.662		2.590		-		2.590	Continuing	Continuing	N/A

Remarks

FY23 to FY24 decrease due to termination of Hemlock Program.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC : Various	14.417	1.827	Nov 2022	1.862	Nov 2023	1.834	Nov 2024	-		1.834	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	MIPR	YPG : Yuma, Arizona	10.961	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	25.378	1.827		1.862		1.834		-		1.834	Continuing	Continuing	N/A

Remarks

FY23 to FY24 decrease due to reduction of JCREW communications interoperability and jamming techniques development requirements.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	Cydecor : Various	2.081	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Miscellaneous	WR	NSWC : Various	2.878	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	4.959	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	136.495	10.716		9.510		9.384		-		9.384	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

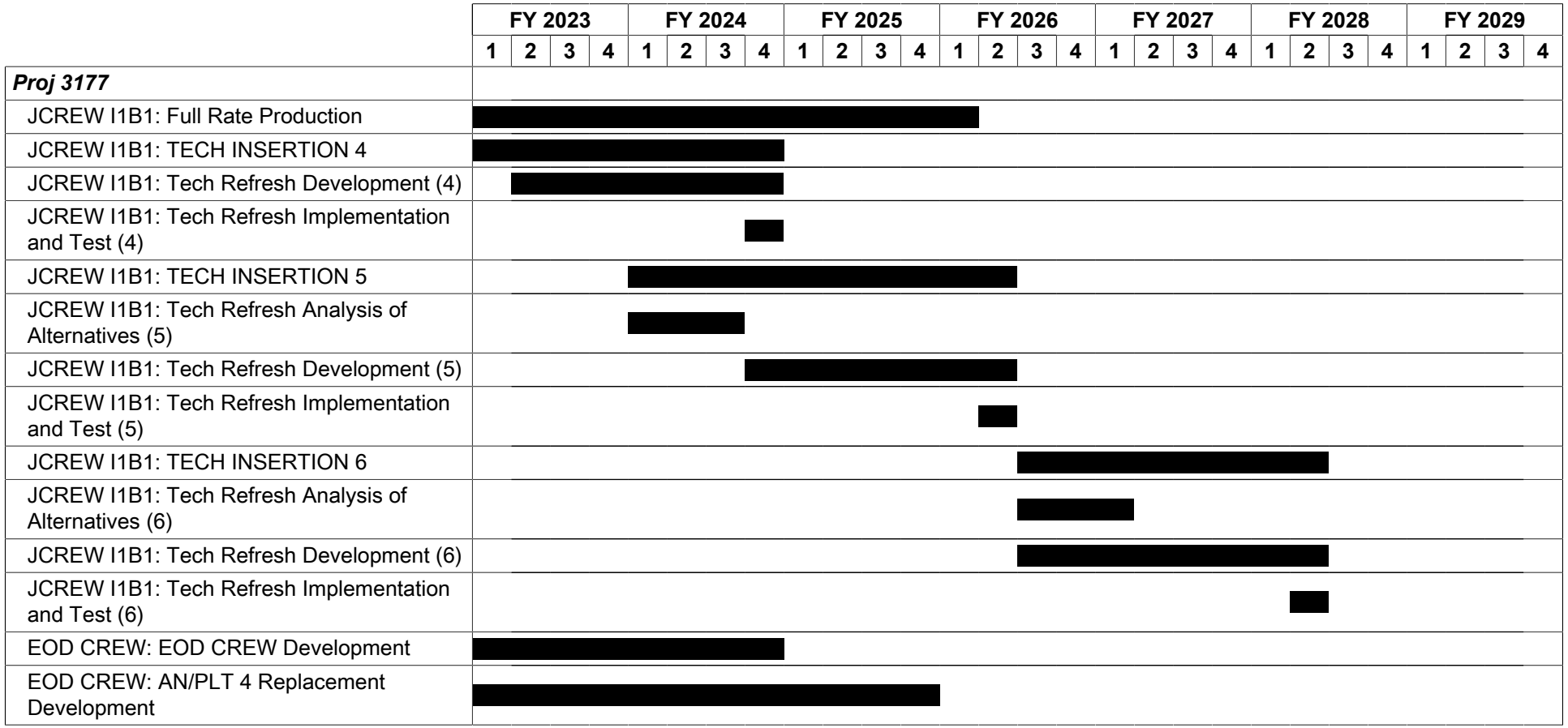


Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3177 / *Joint Counter Radio-Controlled IED Elec Warfare*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3177				
JCREW I1B1: Full Rate Production	1	2023	1	2026
JCREW I1B1: TECH INSERTION 4	1	2023	4	2024
JCREW I1B1: Tech Refresh Development (4)	2	2023	4	2024
JCREW I1B1: Tech Refresh Implementation and Test (4)	4	2024	4	2024
JCREW I1B1: TECH INSERTION 5	1	2024	2	2026
JCREW I1B1: Tech Refresh Analysis of Alternatives (5)	1	2024	3	2024
JCREW I1B1: Tech Refresh Development (5)	4	2024	2	2026
JCREW I1B1: Tech Refresh Implementation and Test (5)	2	2026	2	2026
JCREW I1B1: TECH INSERTION 6	3	2026	2	2028
JCREW I1B1: Tech Refresh Analysis of Alternatives (6)	3	2026	1	2027
JCREW I1B1: Tech Refresh Development (6)	3	2026	2	2028
JCREW I1B1: Tech Refresh Implementation and Test (6)	2	2028	2	2028
EOD CREW: EOD CREW Development	1	2023	4	2024
EOD CREW: AN/PLT 4 Replacement Development	1	2023	4	2025

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*				Project (Number/Name) 3447 / *Mine Expeditionary Response Vehicle (MESR)*			
COST ($ in Millions)	**Prior Years**	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**	**FY 2026**	**FY 2027**	**FY 2028**	**FY 2029**	**Cost To Complete**	**Total Cost**
3447: *Mine Expeditionary Response Vehicle (MESR)*	8.693	10.983	18.676	16.042	-	16.042	21.480	9.885	10.028	10.234	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

MESR realigned from Project 4023 beginning in FY22

A. Mission Description and Budget Item Justification

Funding supports the development of unmanned systems for the Navy's expeditionary unmanned underwater Explosive Ordnance Disposal (EOD) and Mine Countermeasures (MCM) capability. Specifically, it provides for development of affordable expeditionary remote stand-off underwater systems to support Navy Expeditionary forces including EOD, Mobile Diving and Salvage, Underwater Construction Teams (UCT), and Expeditionary Mine Countermeasures (ExMCM) mission operations. The equipment must be highly portable in order to support the Navy EOD technician to safely detect, approach, render safe, recover, exploit, and dispose of underwater explosive threats to include sea mines, limpet mines, maritime IEDs, and unexploded ordnance. Provides support for the Navy's high priority missions of Maritime Homeland Defense and MCM. This project directly supports Department of the Navy Strategic Roadmap for Unmanned Systems promulgated in March 2018 and addresses capability gaps defined by the Joint Service EOD (JSEOD) Initial Capabilities Document (ICD), Serial Number 671-75-05 of 3 June 2005, Joint Improvised Explosive Device (IED) Defeat Initial Capabilities Document (ICD) of 23 February 2006/JROCM 070-06, and the Expeditionary MCM ICD of June 2017. This project is being executed in accordance with approved CNO N9I Requirement #056-95-19, "Capability Development Document (CDD) for Maritime Expeditionary Standoff Response Family of Systems (MESR)," July 23, 2019.

Additional efforts continue to execute the open competition process necessary to acquire and verify an EOD Response ROV capability focusing on user effectiveness and operational suitability to provide a ROV based target interdiction capability to address the capability gaps assessed in the previously conducted Expeditionary UUV Neutralization System (EUNS) AoA. This next generation capability is developed to decrease risk when reacquiring/investigating a potential threat (i.e. sea mine or maritime IED). In response to emergent maritime threat assessments ISO of INDOPAC Global Power Competition (GPC) scenarios, the MESR Program of Record (PoR) will initiate and conduct a Proof-of-Concept effort to demonstrate the potential ability to counter deep-water explosive threats as an ExMCM enabling capability ISO Joint Force Maneuver.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Title: EOD Response ROVs and Maritime Expeditionary Standoff Response System of Systems	10.983	18.676	16.042	0.000	16.042
Articles:	-	-	-	-	-
Description: This program supports development, testing and evaluation of technologies and commercial systems that will provide needed capabilities to EOD and Expeditionary forces in responding to the wide range					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
of underwater threats and operational environments encountered in assigned mission areas to include: confined areas, hulls, piers and pilings to detect, search, classify, map, re-acquire, identify, and neutralize sea and limpet mines and underwater improvised explosive devices. ***FY 2024 Plans:*** FY24 efforts will focus on completing the events and actions necessary to achieve a production decision for MESR Increment I. Awarded the initial production lot occurred, working on delivery and acceptance testing of the first lot of production units. Additionally, based on the results of the Alternative Systems Review (ASR) conducted in FY22 and the acquisition of initial Increment II payloads in FY23, developmental testing and evaluation of candidate payloads for integration into prototype Increment II platforms will continue in FY24. The Deep Water Threat Response effort will initiate in FY24 including CONOPS development, platform hardening, and component analysis and selection. Additional efforts include advancement in Artificial Intelligence and Machine Leaning (AI/ML) technologies, as well as improving Automated Target Recognition (ATR) algorithms and supervisory controlled autonomous behaviors. ***FY 2025 Base Plans:*** FY25 efforts will focus on evaluating and developing technologies as determined by the results of the Alternative Systems Review (ASR) approved in FY23 to focus on increasing standoff command and control, developing enhancements in payload and platform capabilities, and identification and neutralization of explosive targets by EOD forces. Efforts in FY25 will include conduct of developmental testing and evaluation of candidate payloads for integration into prototype Increment II platforms. The Deep-Water Threat Response effort will continue in FY25 and include completion of CONOPS development and platform hardening to achieve depth requirements. Developmental test and evaluation of selected components will be performed leading to full up system integration efforts. FY25 will continue the development and testing of advanced technologies that will allow warfighters to detect, classify, and prosecute explosive threats by ExMCM forces. Efforts include advancement in Artificial Intelligence and Machine Leaning (AI/ML) technologies, as well as improving Automated Target Recognition (ATR) algorithms and supervisory controlled autonomous behaviors. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease in FY 2025 due to a slight ramp down in Deep Water EOD Response developmental efforts.					
Accomplishments/Planned Programs Subtotals	10.983	18.676	16.042	0.000	16.042

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPN/0977: *UNDERWATER EOD EQUIPMENT*	35.372	19.549	16.650	-	16.650	23.275	22.780	24.698	25.214	Continuing	Continuing

Remarks

BLI 0977 funding covers several EOD program efforts to include, ROVs, STRIDENT, Command Detonation Systems,and MESR.

D. Acquisition Strategy

Analysis of Alternatives (AOA) studies and/or Alternative System Reviews (ASRs) are conducted prior to the initiation of new sub-projects. The AOA addresses and emphasizes acquisitions strategies of the most cost effective solution over the sub-projects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modifications), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&E, if required, is competitive and when feasible, production options are included. This ongoing program capitalizes on a User Operational Evaluation System (UOES) effort involving Fleet operators engaged in tactical experimentation with prototype EOD Response vehicles prior to fielding baseline systems and capability improvement package increments. Operational capabilities with ROVs have been realized at designated operational units, using a competitive, innovative acquisition strategy. The addition of enhanced capabilities through an evolutionary acquisition approach to the EOD Response toolbox is programmed for delivery in accordance with approved CNO requirements and ONR Technology Deployment Agreements (TDAs) which close capability gaps. Further improvements to the toolbox to add basic mine and underwater explosive threats neutralization capabilities will continue to be pursued, including expansion of EOD Response capabilities employing Remotely Operated Vehicles (ROVs) in areas where current UUVs cannot operate. Streamlined acquisition initiatives are in place to quickly evaluate candidate EOD response capabilities while the longer term MESR Family of Systems is developed. A key attribute for these systems is minefield suitability and control of system signatures to counter influence fired ordnance. Influence signatures of subject ROVs will be characterized as a vital component of the acquisition initiatives. Maximum use of innovative contracting mechanisms will be assessed and pursued where applicable and in the best interest of the Navy.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 3447 / *Mine Expeditionary Response Vehicle (MESR)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	Various : Various	1.228	1.364	Nov 2022	3.298	Nov 2023	2.988	Nov 2024	-		2.988	Continuing	Continuing	Continuing
System Engineering	WR	Various : Various	2.727	3.920	Nov 2022	5.486	Nov 2023	4.159	Nov 2024	-		4.159	Continuing	Continuing	Continuing
		Subtotal	3.955	5.284		8.784		7.147		-		7.147	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Support	C/CPFF	CYDECOR : Arlington, VA	0.450	0.564	Nov 2022	1.014	Nov 2023	0.601	Nov 2024	-		0.601	Continuing	Continuing	Continuing
		Subtotal	0.450	0.564		1.014		0.601		-		0.601	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	VARIOUS : Various	4.288	5.135	Nov 2022	8.878	Nov 2023	8.294	Nov 2024	-		8.294	Continuing	Continuing	Continuing
		Subtotal	4.288	5.135		8.878		8.294		-		8.294	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.693	10.983		18.676		16.042		-		16.042	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

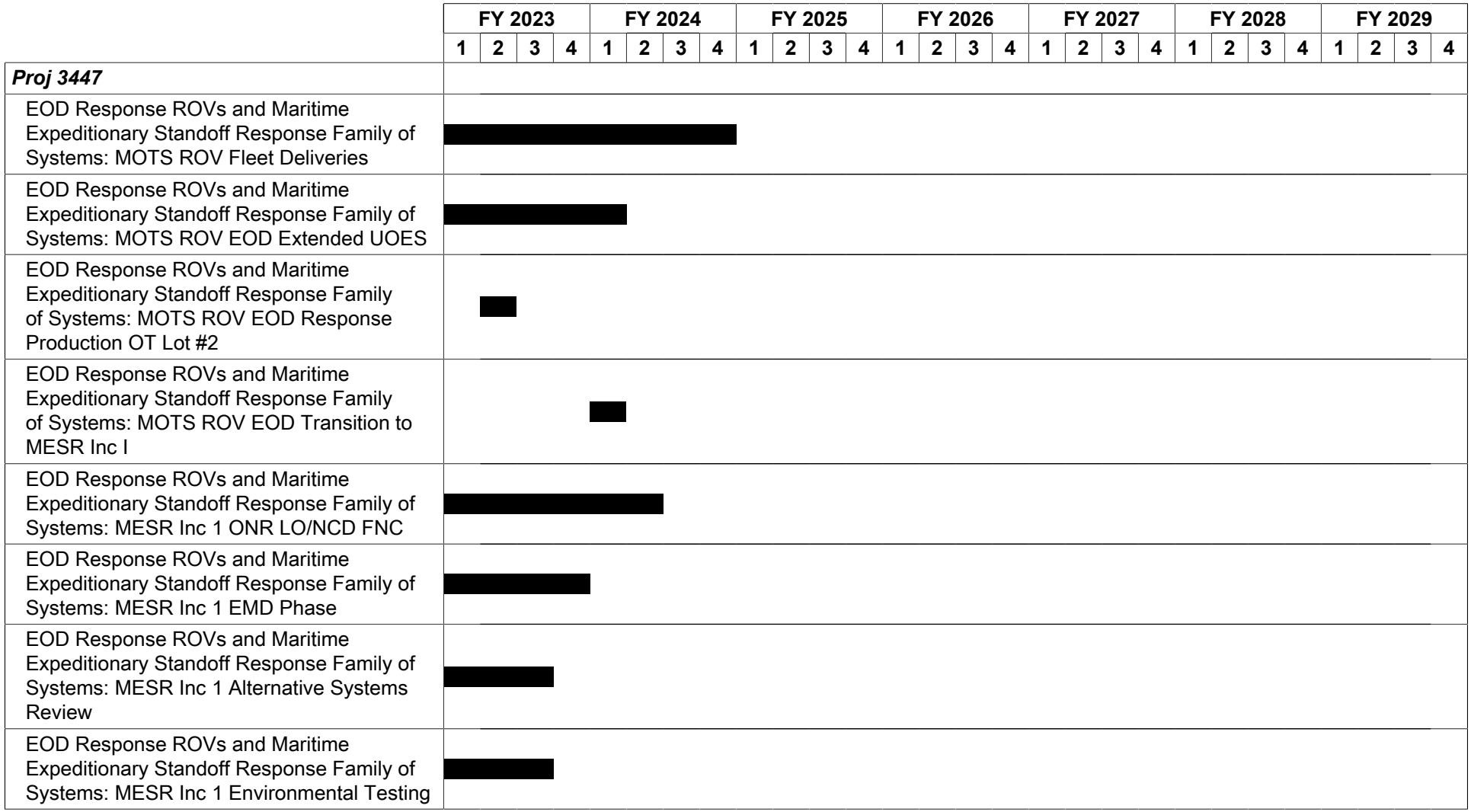


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

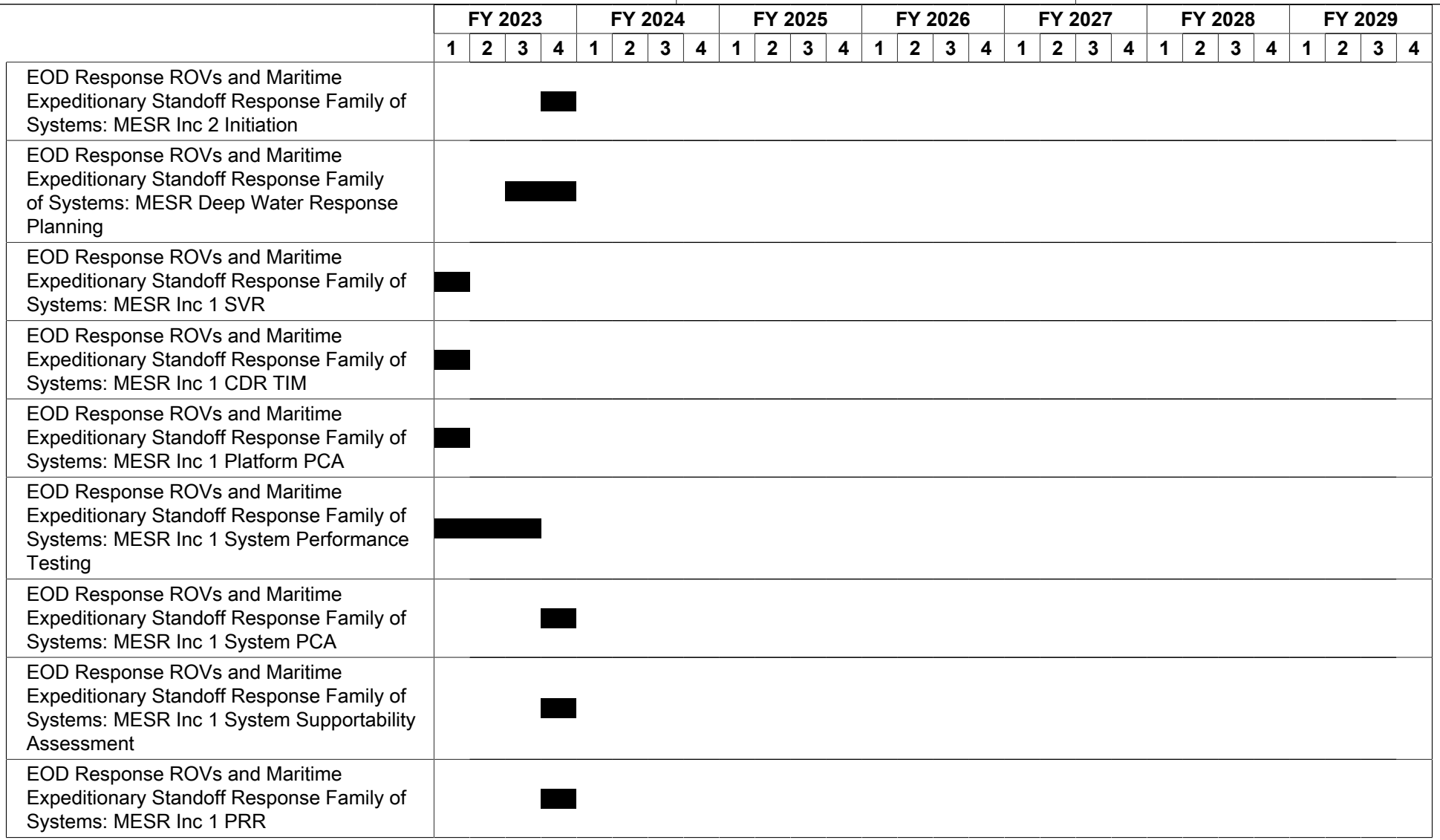


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

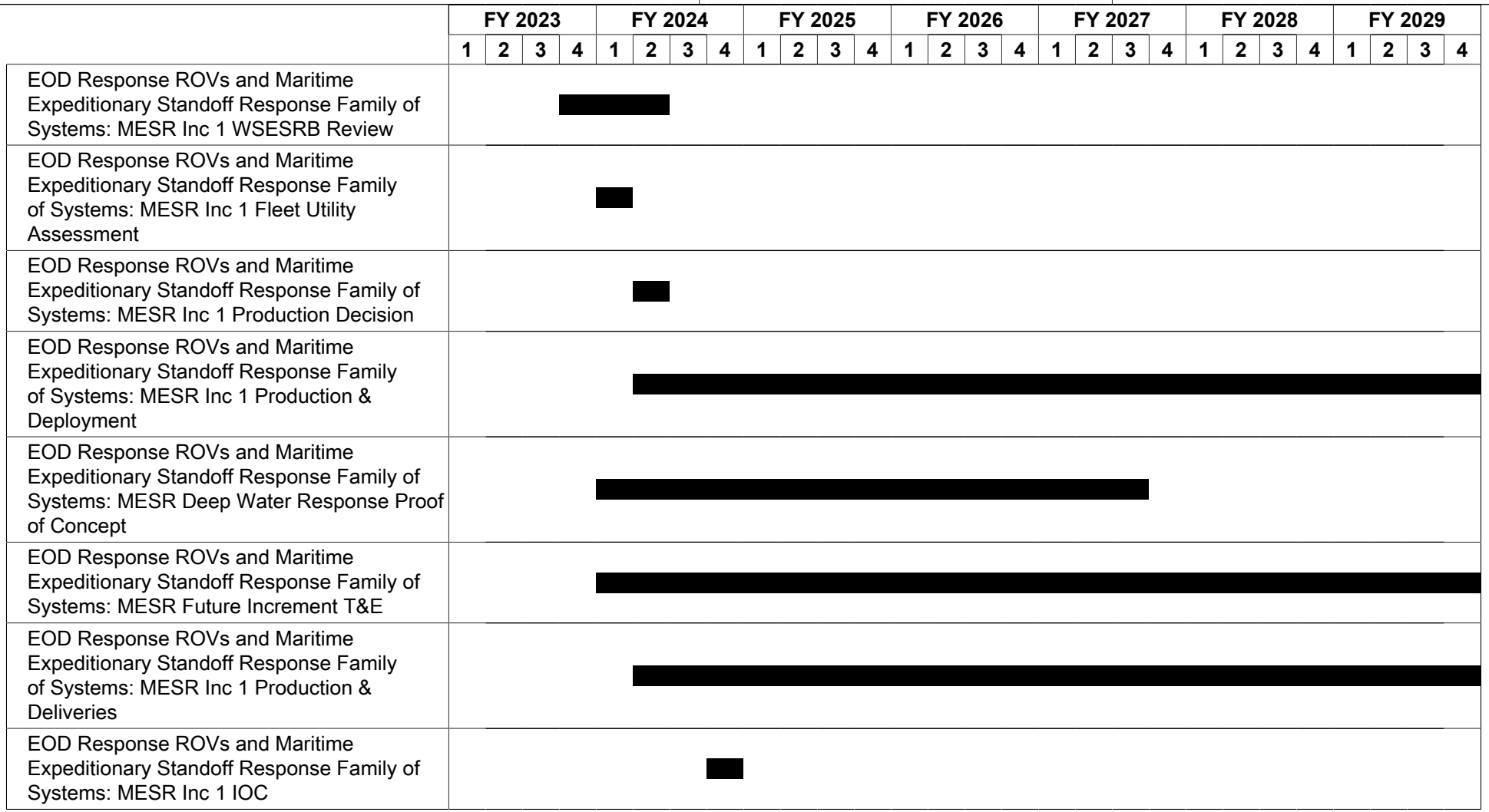


Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603654N / *JNT Service EOD Development*	Project (Number/Name) 3447 / *Mine Expeditionary Response Vehicle (MESR)*	

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 FOC																												■

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3447				
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MOTS ROV Fleet Deliveries	1	2023	4	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MOTS ROV EOD Extended UOES	1	2023	1	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MOTS ROV EOD Response Production OT Lot #2	2	2023	2	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MOTS ROV EOD Transition to MESR Inc I	1	2024	1	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 ONR LO/NCD FNC	1	2023	2	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 EMD Phase	1	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Alternative Systems Review	1	2023	3	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Environmental Testing	1	2023	3	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 2 Initiation	4	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Deep Water Response Planning	3	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 SVR	1	2023	1	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 CDR TIM	1	2023	1	2023

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0603654N / *JNT Service EOD Development*	**Project (Number/Name)** 3447 / *Mine Expeditionary Response Vehicle (MESR)*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Platform PCA	1	2023	1	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 System Performance Testing	1	2023	3	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 System PCA	4	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 System Supportability Assessment	4	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 PRR	4	2023	4	2023
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 WSESRB Review	4	2023	2	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Fleet Utility Assessment	1	2024	1	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Production Decision	2	2024	2	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Production & Deployment	2	2024	4	2029
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Deep Water Response Proof of Concept	1	2024	3	2027
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Future Increment T&E	1	2024	4	2029
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 Production & Deliveries	2	2024	4	2029
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 IOC	4	2024	4	2024
EOD Response ROVs and Maritime Expeditionary Standoff Response Family of Systems: MESR Inc 1 FOC	4	2029	4	2029