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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604654N / JNT Service EOD
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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	288.745	7.942	8.346	8.348	-	8.348	-	-	-	-	-	-
1829: <i>Expl Ord Disp Proc</i>	288.745	7.942	8.346	8.348	-	8.348	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program, aligned with the National Defense Strategy, provides Joint Service Explosive Ordnance Disposal (EOD) and the supported Combatant Commanders with information superiority by providing for the development of Unexploded Explosive Ordnance (UXO), Improvised Explosive Devices (IED), Weapons of Mass Destruction (WMD), and weapons systems Technical Manuals (TMs). TMs, which provide key identification features, hazardous materials, and safety information, are paramount to the success of EOD Mission to detect, locate, access, identify, Render Safe/Neutralize, and dispose or recover both foreign and domestic explosive threats that pose a threat to military operations, installations, personnel, and materials.

In addition, EOD Render Safe Procedures (RSP) of foreign ordnance and other explosive hazards must be developed as soon as possible after gaining knowledge of its existence. This effort requires collection, exploitation, and analysis of the foreign ordnance prior to the development of EOD procedures.

As defined in DOD Directive 5160.62, assigns the Secretary of the Navy (SECNAV) the responsibility of Executive Agent for Explosive Ordnance Disposal (EOD) Technology and Training (T&T). The Executive Agent for EOD T&T is to provide for the preparation, technical development, validation, Joint Service approval, and distribution of all EOD procedures and countermeasures to include publications, manuals, bulletins, texts, and graphic aids. This program is a non-acquisition program (without traditional acquisition milestones) with on-going, continuous delivery of urgent and periodic documented procedures and publications for mines, ordnance items, weapons systems, Improvised Explosive Devices, Weapons of Mass Destruction, and related explosive hazards.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	8.237	8.383	8.542	-	8.542
Current President's Budget	7.942	8.346	8.348	-	8.348
Total Adjustments	-0.295	-0.037	-0.194	-	-0.194
• Congressional General Reductions	-	-0.037			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.295	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.194	-	-0.194

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<u>Change Summary Explanation</u> FY 2020: SBIR -\$0.295M FY 2021: Congressional Adjustments -\$0.037M FY 2022: Other Rate/Misc Adjustments (MISC) -\$0.130M		

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy										Date: May 2021		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604654N / JNT Service EOD				Project (Number/Name) 1829 / Expl Ord Disp Proc			
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
1829: Expl Ord Disp Proc	288.745	7.942	8.346	8.348	-	8.348	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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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
Title: Render-Safe Procedures Development	3.806	7.015	7.535	0.000	7.535
Articles:	-	-	-	-	-
FY 2021 Plans: Render Safe Procedures Development program will focus on preparing new and updating existing Technical Manuals to include key identification features, functionality, hazardous components, and disposal procedures, on foreign ordnance, weapons, and other explosive threats. Technical Manual development is accomplished through collection, exploitation, analysis, and reverse engineering of collected ordnance items.					
FY 2022 Base Plans: Render Safe Procedures Development will continue to expand source data for EOD Technical Manuals, both new and updated materials on foreign ordnance, weapons, and other explosive threats for use by the Joint					

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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
<p>Service EOD community. Funding also supports periodic reviews to develop testing and ensures configuration changes to items and validation procedures are updated.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase due to strategic re-prioritization within the JEOD community for Render Safe Procedures of conventional ordnance and other explosive threats. Funds will support expanding the EOD Technical Manuals source material and develop Render Safe Procedures that are tested and validated on ordnance items. These publications are critical to mission success and safety of the EOD warfighter and address threats with no or limited coverage that the JEOD community will likely encounter.</p>					
<p>Title: Improvised Explosive Device (IED), Weapons of Mass Destruction (WM) Countermeasures</p> <p align="right">Articles:</p> <p>FY 2021 Plans: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures program provides for the collection and analysis of information for development of Technical Manuals on newly developed or discovered IED/WMD or Homemade Explosive (HME). Through the collection of intelligence and exploitation reports and analysis and testing of critical components, materials and solutions are identified and documented within the 60-Series publications to serve as reference material to support Joint Service EOD technicians encountering IED and WMD materials.</p> <p>FY 2022 Base Plans: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures program continues to maintain alignment with the National Defense Strategy and provides for the development of Technical Manuals. Data collection, analysis, testing and processing of information will continue to support new manuals and information available for the Joint EOD warfighter encountering IED and WMD materials.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease due to strategic re-prioritization within the JEOD community to ordnance and conventional explosive threats.</p>	1.927	0.931	0.813	0.000	0.813
	-	-	-	-	-
<p>Title: Foreign Mine Acquisition</p>	2.209	0.400	0.000	0.000	0.000

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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
<p align="right"><i>Articles:</i></p> <p>FY 2021 Plans: Foreign Mine Acquisition will complete contract actions associated with FY2019 and FY2020 procurements to include the inspection, acceptance, and delivery of procured items to CONUS for follow on exploitation and analysis. No new procurements are planned for FY2021.</p> <p>FY 2022 Base Plans: N/A</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease due to strategic re-prioritization within the JEOD community for render safe procedure of conventional ordnance and other explosive threats.</p>	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	7.942	8.346	8.348	0.000	8.348

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

N/A

Remarks

D. Acquisition Strategy

This is a non-acquisition program.

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

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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			
Ordnance and Weapons Systems Procedures Development	WR	NSWCIHEODTD : Indian Head, MD	197.581	3.177	Nov 2019	7.327	Nov 2020	7.535	Nov 2021	-		7.535	-	-	-
Improvised Explosive Device {IED}, Weapons of Mass Destruction {WMD} Countermeasures	WR	NSWCIHEODTD : Indian Head, MD	57.184	1.125	Nov 2019	0.500	Nov 2020	0.813	Nov 2021	-		0.813	-	-	-
Improvised Explosive Device {IED}, Weapons of Mass Destruction {WMD} Countermeasures	WR	Sandia DOE : Albuquerque, NM	0.000	0.770	Nov 2019	0.043	Nov 2020	0.000		-		0.000	-	-	-
Foreign Mine Acquisition	WR	NSWCIHEODTD : Indian Head, MD	16.434	2.204	Nov 2019	0.400	Nov 2020	0.000		-		0.000	-	-	-
Miscellaneous	WR	NSWCIHEODTD : Indian Head, MD	17.546	0.316	Nov 2019	0.000		0.000		-		0.000	-	-	-
Subtotal			288.745	7.592		8.270		8.348		-		8.348	-	-	N/A

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			
Program Management Personnel	WR	NSWCIHEODTD : Indian Head, MD	0.000	0.350	Nov 2019	0.076	Oct 2020	0.000		-		0.000	-	-	-
Subtotal			0.000	0.350		0.076		0.000		-		0.000	-	-	N/A

Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	288.745	7.942	8.346	8.348	-	8.348	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy **Date:** May 2021

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FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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

JT Service EOD	
System Development: Ordnance and Weapons Systems Procedures Development	
System Development: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures	

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy **Date:** May 2021

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
JT Service EOD				
System Development: Ordnance and Weapons Systems Procedures Development	1	2020	4	2022
System Development: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures	1	2020	4	2022