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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy **Date:** March 2024

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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>
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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	122.422	11.735	0.539	3.504	-	3.504	2.887	2.117	2.156	2.201	Continuing	Continuing
3135: <i>USMC MUX</i>	56.422	1.735	0.539	3.504	-	3.504	2.887	2.117	2.156	2.201	Continuing	Continuing
9999: <i>Congressional Adds</i>	66.000	10.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	76.000

A. Mission Description and Budget Item Justification

Project 3135 - The Marine Air Ground Task Force (MAGTF) Unmanned Aircraft System (UAS) Expeditionary (MUX) Family of Systems (FoS) project provides funding to address Tier 1 capability gaps identified in the October 2016 MUX Initial Capabilities Document (ICD) and April 2020 MUX Requirements Clarification document. This PE supports experimentation and prototyping of advanced payloads, system architectures, mission control capabilities, ground control stations, networking and communications infrastructure, and new air vehicles. In addition, MUX FoS will also develop CONOPS to integrate the MUX FoS into joint programs and operating concepts to mitigate technical risk through model-based systems engineering, analysis, simulation, test and evaluation, and partnership with industry.

The MUX FoS provides Advanced Tactical UAS in support of Expeditionary Advanced Base Operations (EABO), Littoral Operations in Contested Environments (LOCE), and Distributed Maritime Operations (DMO) to provide advanced, unmanned, multi-mission capability for the MAGTF and Marine Littoral Regiment (MLR). The first MUX FoS element is MUX Medium-Altitude, Long-Endurance (MUX MALE), a land-based Group 5 UAS scheduled to begin operating in INDOPACOM in FY23. RDT&E efforts for MUX-MALE are funded in PE 0603128N.

B. Program Change Summary (\$ in Millions)

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	11.735	0.539	3.491	-	3.491
Current President's Budget	11.735	0.539	3.504	-	3.504
Total Adjustments	0.000	0.000	0.013	-	0.013
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	0.013	-	0.013

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Mobile unmanned/manned distributed lethality airborne network joint capability*

FY 2023	FY 2024
10.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>
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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>	FY 2023	FY 2024
Congressional Add Subtotals for Project: 9999	10.000	0.000
Congressional Add Totals for all Projects	10.000	0.000

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>				Project (Number/Name) 3135 / <i>USMC MUX</i>			
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
3135: <i>USMC MUX</i>	56.422	1.735	0.539	3.504	-	3.504	2.887	2.117	2.156	2.201	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project 3135 - The Marine Air Ground Task Force (MAGTF) Unmanned Aircraft System (UAS) Expeditionary (MUX) Family of Systems (FoS) project provides funding to address capability gaps identified in the October 2016 MUX Initial Capabilities Document (ICD) and associated Requirements Clarification document. This PE supports experimentation and prototyping of advanced payloads, system architectures, mission control capabilities, ground control stations, networking and communications infrastructure, and safety of flight systems. In addition MUX FoS will also develop CONOPS to integrate the MUX FoS into joint programs and operating concepts to mitigate technical risk through model-based systems engineering, analysis, simulation, test and evaluation, and partnership with industry.

The MUX FoS provides Advanced Tactical UAS in support of Expeditionary Advanced Base Operations (EABO), Littoral Operations in Contested Environments (LOCE), and Distributed Maritime Operations (DMO) to provide advanced, unmanned, multi-mission capability for the MAGTF and Marine Littoral Regiment (MLR). The first MUX FoS element is Medium-Altitude, Long-Endurance (MALE), a land-based Group 5 UAS scheduled to begin operating in INDOPACOM in FY23. RDT&E efforts for MALE are funded in PE 0603128N.

MUX FoS within this Program Element will continue Mission System Payload development and assessment efforts for future system within and external to MALE program. Future Mission System Payloads will support Mission Sensors and other critical technologies that support future planned FoS capability.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Mission System Development	0.000	0.000	2.304	0.000	2.304
Articles:	-	-	-	-	-
Description: Funding supports the development and integration of mission system payloads supporting MUX Family of Systems (FoS) concepts identified within the MUX Initial Capabilities Document (ICD).					
FY 2024 Plans: N/A					
FY 2025 Base Plans: MUX will support capability and payload sensor primary hardware development, NRE, capability integration studies and design work. MUX will also support programmatic engineering, logistics and technical requirements					

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>		Project (Number/Name) 3135 / <i>USMC MUX</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
generation of capabilities for the MUX Family of Systems (FoS). The program will perform payload capability improvements to include payload software as well as test required to pace evolving threats.						
FY 2025 OCO Plans: N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 increase of \$2.304M accounts for trade studies/demonstrations and mission system development of improved or future Maritime Domain Awareness (MDA), Electronic Warfare (EW) Sensors, and capabilities.						
Title: MUX Program Support						
Articles:						
Description: Funding supports the development and integration of mission system payloads supporting MUX Family of Systems (FoS) concepts identified within the MUX Initial Capabilities Document (ICD).						
FY 2024 Plans: Continue to provide Government Systems Engineering and Program Management, Contractor RDT&E support, and travel. Tasking includes conducting Model Based Systems Engineering simulation using industry and threat data and developing system and payload architecture studies to inform future integration approaches.						
FY 2025 Base Plans: Continue to provide Government Systems Engineering, Program Management, Logistics, Contractor RDT&E support, and travel. Tasking includes conducting Model Based Systems Engineering simulation using industry and threat data and developing system and payload architecture studies to inform future integration approaches. Tasking will also include trade studies/demonstrations and assessments of developing capabilities for integration on the platform.						
FY 2025 OCO Plans: N/A						
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 increase of \$.661M accounts for management support services; government engineering, program management, logistics, and travel for trade studies/demonstrations and mission system development of improved or future Maritime Domain Awareness (MDA) and Electronic Warfare (EW) Sensors and capabilities.						
Accomplishments/Planned Programs Subtotals						
		1.735	0.539	1.200	0.000	1.200
		-	-	-	-	-
		1.735	0.539	3.504	0.000	3.504

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 3135 / <i>USMC MUX</i>

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

N/A

Remarks

D. Acquisition Strategy

The MUX acquisition strategy leverages organic government resources, competitive and sole-source contract awards, and assisted acquisition approaches to conduct experimentation and prototyping of advanced payloads, system architectures, mission control capabilities, ground control stations, networking and communications infrastructure, and new air vehicles. Additionally, future MUX Mission System Payloads will leverage other services and government agencies with current technologies in development and will be available at a relatively mature technology.

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 3135 / <i>USMC MUX</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
MUX Studies and Experimentation	Various	Various : Various	11.729	0.000		0.000		0.000		-		0.000	0.000	11.729	-
Requirements Analysis and Engineering Assessments	WR	Various : Various	6.922	0.000		0.000		0.000		-		0.000	0.000	6.922	-
Mission System Development	Various	Various : Various	11.763	0.000		0.000		2.304	Dec 2024	-		2.304	0.000	14.067	-
Prize Challenge Award	Various	Various : Various	4.000	0.000		0.000		0.000		-		0.000	0.000	4.000	-
Modeling and Simulation	Various	NAWC AD : Patuxent River, MD	3.171	0.000		0.000		0.000		-		0.000	0.000	3.171	-
Subtotal			37.585	0.000		0.000		2.304		-		2.304	0.000	39.889	N/A

Remarks
FY 2025 increase of \$2.304 accounts for increase in product trade studies, demonstrations, and mission system development of Airborne Network Extension (ANE), Maritime Domain Awareness (MDA) and Electronic Warfare (EW) sensors.

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
ILS	Various	Various : Various	0.000	0.000		0.100	Nov 2023	0.175	Nov 2024	-		0.175	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.100		0.175		-		0.175	Continuing	Continuing	N/A

Remarks
FY 2025 increase of \$.075 is associated with ILS services required for the development of Maritime Domain Awareness (MDA), Electronic Warfare (EW) sensors and safety of flight systems.

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 3135 / <i>USMC MUX</i>
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Developmental Test & Evaluation (DT&E)	Various	NAWCAD : Patuxent River, MD	0.220	0.000		0.000		0.000		-		0.000	0.000	0.220	-
Subtotal			0.220	0.000		0.000		0.000		-		0.000	0.000	0.220	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Government Engineering Support	WR	NAWCAD : Patuxent River, MD	8.159	0.849	Nov 2022	0.300	Nov 2023	0.500	Nov 2024	-		0.500	Continuing	Continuing	Continuing
Program Management Support	Various	Various : Various	10.075	0.842	Nov 2022	0.124	Nov 2023	0.500	Nov 2024	-		0.500	Continuing	Continuing	Continuing
Travel	WR	NAWCAD : Patuxent River, MD	0.383	0.044	Nov 2022	0.015	Nov 2023	0.025	Nov 2024	-		0.025	Continuing	Continuing	Continuing
Subtotal			18.617	1.735		0.439		1.025		-		1.025	Continuing	Continuing	N/A

Remarks
FY 2025 increase of \$1.963 is associated with Management services required for the development of Maritime Domain Awareness (MDA), Electronic Warfare (EW) sensors and safety of flight systems.

	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	56.422	1.735	0.539	3.504	-	3.504	Continuing	Continuing	N/A

Remarks

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 3135 / <i>USMC MUX</i>
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Proj 3135	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
System Development	Mission System Development																															

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 3135 / <i>USMC MUX</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3135				
System Development: Mission System Development	1	2023	4	2029

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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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
9999: <i>Congressional Adds</i>	66.000	10.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	76.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project C882 - The Mobile Unmanned/Manned Distributed Lethality Airborne Network (MUDLAN) project provides development of high speed, high throughput, interoperable data link supporting Command and Control (C2), Intelligence, Surveillance, Reconnaissance (ISR) and Tactical Data in a SATCOM denied or restricted environment.

MUDLAN provides prototype development, testing, fleet experimentation, and concept refinement for next generation high speed, high throughput data link supporting C2, ISR and Tactical Data to connect and distribute multi-users across multiple domains in a common network architecture which enhances tactical edge situational awareness with a single user interface.

The modern protected communications capabilities allow manned and unmanned aircraft to share and disseminate large amounts of data using improved emergent communications technologies for multi-platform/ multi-service interoperability through Line-of-Sight (LOS) tactical data networks. These high-speed tactical data links are required at the forward edge where satellite services are not optimal and where existing airborne tactical data links do not support required speeds.

MUDLAN built a prototype joint tactical grid connecting over the horizon across 5 IP based links, including a high-capacity transport of 45 MBPS at 130 nautical miles in a single hop, total end to end connection of 220 nautical miles demonstrated at Pax River in March 2021. MUDLAN Joint Capability Technology Demonstration concludes this summer with two defined transitions of components into programs of record. The services are continuing to invest in specific upgrades to other components to meet evolving requirements.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024
Congressional Add: Mobile unmanned/manned distributed lethality airborne network joint capability	10.000	0.000
FY 2023 Accomplishments: FY23 MUDLAN CONAD funds continue NRE, surrogate and UAS testing of MATI systems, and development of fully developed Engineering Change Proposals (ECPs) for incorporation into other Government Programs and Projects. Phase 2 will ensure MIL-STD adherence of the MATI components, incorporation of encryption topology and systems for the MATI System and obtain certification from NSA for the encryption topology/systems.		
FY 2024 Plans: N/A		
Congressional Adds Subtotals	10.000	0.000

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>

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

N/A

Remarks

D. Acquisition Strategy

The MUDLAN/MATI (MANGL advanced technology insertion) experimentation will leverage MUDLAN Joint Capability Technology Demonstration and MUDLAN Small Business Innovation Research prior efforts. The use of Small Business contractors, the effort will focus on continued innovation of antenna, radio and networking capabilities. Experimentation and maturation will continue to inform end user operational requirements and build on USMC, Joint service, OSD(R&E) successes. Transition will occur through future acquisition plans once the hardware is mature and the Joint service requirements are validated to enable follow-on fleet integration.

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
CONOPS, Interface Control Documents	WR	NAWCAD : Patuxent River, MD	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
MUDLAN Pod development and flight demonstration	C/CPIF	Various : Various	7.900	0.000		0.000		0.000		-		0.000	0.000	7.900	-
MUDLAN communications equipment and demonstrations	C/CPIF	Various : Various	8.150	0.000		0.000		0.000		-		0.000	0.000	8.150	-
ULS-A Experimentation	Various	USAF : Rome, NY	20.444	0.000		0.000		0.000		-		0.000	0.000	20.444	-
ULS-A Requirements and analysis, and engineering assessments	WR	NAWCAD : Patuxent River, MD	1.342	0.000		0.000		0.000		-		0.000	0.000	1.342	-
FINN Dev	Various	USAF : WPAFB	2.500	0.000		0.000		0.000		-		0.000	0.000	2.500	-
K-MAX Unmanned Logistics System	Various	USAF : Rome, NY	7.000	0.000		0.000		0.000		-		0.000	0.000	7.000	-
MQ-9 Multi-mode radar pod	Various	AFRL : Dayton, Ohio	5.000	0.000		0.000		0.000		-		0.000	0.000	5.000	-
MUDLAN unmanned/manned distributed lethality airborne network joint capability	C/CPIF	AFRL : Rome, NY	0.000	9.600	Apr 2023	0.000		0.000		-		0.000	0.000	9.600	-
Subtotal			52.836	9.600		0.000		0.000		-		0.000	0.000	62.436	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Logistics Support	Various	Various : Various	2.333	0.000		0.000		0.000		-		0.000	0.000	2.333	-
Subtotal			2.333	0.000		0.000		0.000		-		0.000	0.000	2.333	N/A

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Developmental Test & Evaluation (DT&E)	Various	Various : Patuxent River, MD	2.100	0.000		0.000		0.000		-		0.000	0.000	2.100	-
Operational Test & Evaluation (OT&E)	Various	Various : Patuxent River, MD	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
Subtotal			2.600	0.000		0.000		0.000		-		0.000	0.000	2.600	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 Support	Various	Various : Various	2.466	0.400	Apr 2023	0.000		0.000		-		0.000	0.000	2.866	-
Government Engineering Support	WR	NAWCAD : Patuxent River, MD	5.465	0.000		0.000		0.000		-		0.000	0.000	5.465	-
Travel	WR	NAWCAD : Patuxent River, MD	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	-
Subtotal			8.231	0.400		0.000		0.000		-		0.000	0.000	8.631	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		66.000	10.000	0.000	0.000	0.000	0.000	76.000

Remarks

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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 0304240M / <i>Advanced Tactical Unmanned Aircraft System</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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Proj 9999	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
MUDLAN/ MATI unmanned/manned distributed lethality airborne network joint capability Pod development																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9999				
MUDLAN/ MATI unmanned/manned distributed lethality airborne network joint capability: MUDLAN Pod development and flight demonstration	1	2023	4	2023