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

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	244.137	25.147	27.794	33.641	-	33.641	38.002	94.843	74.377	80.965	Continuing	Continuing
2316: <i>Combat Service Support Eng Equip</i>	123.015	10.333	7.474	4.082	-	4.082	10.670	6.482	6.029	6.155	Continuing	Continuing
2509: <i>Motor Transport Mod</i>	57.958	4.973	11.900	19.174	-	19.174	20.161	76.986	58.508	64.261	Continuing	Continuing
2510: <i>MAGTF CSSE &amp; SE</i>	49.202	9.191	7.714	6.271	-	6.271	6.443	10.635	9.086	9.779	Continuing	Continuing
2929: <i>Testing Measuring Diag Equip &amp; SE</i>	13.962	0.650	0.706	4.114	-	4.114	0.728	0.740	0.754	0.770	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program element (PE) provides funding for Marine Air-Ground Task Force requirements for Combat Service Support equipment improvement. It will enhance combat breaching capabilities of the ground combat elements, logistics, maintenance and transportation. The PE also provides improvements in all areas of Combat Service Support Equipment Vehicles by determining the replacement for the light fleet of vehicles. This includes projects such as: Alternative Power Sources for Communications Equipment which is a suite of devices that provide the commander with the capability to use existing power to operate his communication equipment, computers and peripheral equipment instead of using batteries or fossil fuel generators; the Marine Corps Family of Automatic Test Systems, formerly TETS, which provides automatic testing capability for use by technicians both in garrison and forward edge of the battlefield; improvements in all areas of the LVSR & MTRV; the High Performance Capabilities for Military Vehicles Project which is dedicated to applying the best practices of the motor sports industry to military vehicles including engineering expertise, equipment, and technology.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	26.522	27.794	33.033	-	33.033
Current President's Budget	25.147	27.794	33.641	-	33.641
Total Adjustments	-1.375	0.000	0.608	-	0.608
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.569	0.000			
• SBIR/STTR Transfer	-0.806	0.000			
• Program Adjustments	0.000	0.000	6.980	-	6.980
• Rate/Misc Adjustments	0.000	0.000	-6.372	-	-6.372

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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	
<b>Change Summary Explanation</b> No significant change in FY 2025 Funding.		

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>				<b>Project (Number/Name)</b> 2316 / <i>Combat Service Support Eng Equip</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2316: <i>Combat Service Support Eng Equip</i>	123.015	10.333	7.474	4.082	-	4.082	10.670	6.482	6.029	6.155	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Engineer Mods and Tool Kits: The Engineer Mods and Tool Kits line funds modifications and initiatives which are required to address operational priorities, engineering change proposals, safety concerns, support equipment inefficiencies, product quality deficiencies, and other issues that affect equipment reliability, availability, and readiness. This approach ensures proper equipment sustainment and life cycle management in response to evolving needs of the Marine Corps fleet. Operational needs to provide personnel survivability on engineer equipment is essential to current and future operations. Research and development funding develops and integrates new lighter, compact armor technology, and supports ballistic testing for applications to existing and future acquisitions.

Corrosion Prevention and Control (CPAC): The useful life of Marine Corps assets will be extended through a comprehensive CPAC RDT&E program aimed at identifying and certifying new corrosion control products, materials, processes, and procedures for legacy and new acquisitions. The CPAC RDT&E Program works to standardize and substantially improve strategies, objectives, and processes to prevent, detect, and treat corrosion and its impacts on Marine Corps ground vehicles and weapons systems. This mission responds to the Congressional directives, DoD, and SECNAV instruction to reduce the negative operational effects of corrosion and reduce associated total ownership cost of Marine Corps ground equipment and weapons systems.

Family of Explosive Ordnance Disposal Equipment (FEOD): Funding supports the Rapid Statement of Need (RSON) development, testing, and evaluation of the Littoral Explosive Ordnance Neutralization (LEON) Payload under-water robot systems to locate, identify, and neutralize those threats.

Explosive Hazard Defeat System (EHDS): Funding supports development, testing, and evaluation USMC Full Force Design Enhancements to locate, avoid, or neutralize explosive threats.

Decreases from FY 2024 to FY 2025:

Realignment of BA4 to Program Element: 0603635M to continue development and testing conducted by Office of Navy Research (ONR).

EHDS re-alignment of funds from BA7 to BA4 to Program Element: 0603635M Project Code: 7400 to allow execution via Office Navy Research (ONR) of GPR development and testing.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> Engineer Mods and Tool Kits	0.439	0.809	0.569	0.000	0.569
<b>Articles:</b>	-	-	-	-	-

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<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2316 / <i>Combat Service Support Eng Equip</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p><b>FY 2024 Plans:</b> - Initiate the testing and integration of modifications for the Engineer Family of Systems.</p> <p><b>FY 2025 Base Plans:</b> -Continue testing and integration of modifications for the Engineer Family of Systems.</p> <p><b>FY 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease of \$0.240M primarily due to completion of testing requirements to support the next phase of the program.</p>					
<p><b>Title:</b> Family of EOD Equipment</p> <p align="right"><b>Articles:</b></p>	3.975 -	1.027 -	0.357 -	0.000 -	0.357 -
<p><b>FY 2024 Plans:</b> - Continue testing and development of LEON Payloads.</p> <p><b>FY 2025 Base Plans:</b> - Continue testing and development of LEON Payloads.</p> <p><b>FY 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease from FY24 to FY25 is due to decreased level of effort in support of LEON Payload DT&amp;E.</p>					
<p><b>Title:</b> Explosive Hazard Defeat System (EHDS)</p> <p align="right"><b>Articles:</b></p>	3.135 -	2.625 -	0.250 -	0.000 -	0.250 -
<p><b>FY 2024 Plans:</b> -Continue development and testing of SoRIDS sensing and Automatic Target Recognition integration with air/ground unmanned platforms. -Initiate testing and development of Future Naval Capabilities (FNC) EHDS Ground Penetrating Radar (GPR) sensing and integration with air/ground unmanned platforms.</p> <p><b>FY 2025 Base Plans:</b></p>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
-Continue testing and development of EHDS GPR sensing and integration with air/ground unmanned platforms. <b>FY 2025 OCO Plans:</b> N/A <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease from FY2024 to FY2025 is a re-alignment of funds to BA 04 Program Element: 0603635M to continue development and testing of SoRIDS sensing and Automatic Target Recognition integration with air/ground unmanned platforms conducted by Office of Navy Research (ONR).					
<b>Title:</b> Corrosion Prevention and Control (CPAC)  <b>Articles:</b>	2.784	3.013	2.906	0.000	2.906
<b>FY 2024 Plans:</b> - Continue research, test, and evaluation of new corrosion control products, materials, processes, and procedures that improve the corrosion condition of Marine Corps ground equipment through corrosion control Research, Development, Testing, Evaluation (RDT&E) initiatives. These initiatives will support and or improve the corrosion condition of equipment such as the Amphibious Combat Vehicle (ACV), Light Armored Vehicle (LAV), Logistics Vehicle System- Replacement (LVSR), study of cost-effective CPCs. - Initiate corrosion prevention engineering guidance to new and legacy Marine Corps ground equipment programs such as the Ultra-Light Tactical Vehicle (ULTV), Joint Light Tactical Vehicle (JLTV), and Medium Tactical Vehicle Replacement (MTVR). - Continue research, test, and evaluation of vendor product submissions for new corrosion control products, materials, processes, and procedures that improve the corrosion condition of Marine Corps ground equipment through the Corrosion Preventive Products and Materials (CPPM) program. - Continue field evaluations, product test, and environmental monitoring in advance of implementing new corrosion prevention products to determine suitability.	-	-	-	-	-

**UNCLASSIFIED**

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<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2316 / <i>Combat Service Support Eng Equip</i>

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p>- Continue to support field evaluations of equipment and environmental characterization of equipment at various geo locations throughout the Fleet Marine Force (FMF) and supporting establishments.</p> <p>- Continue to conduct studies and update corrosion technology roadmap with new technologies, processes, and advanced materials for military utility.</p> <p>- Continue technical publication updates.</p> <p>- Complete Cooperative Research and Development Agreement (CRADA) with CHEMEON.</p> <p><b>FY 2025 Base Plans:</b></p> <p>- Continue research, test, and evaluation of new corrosion control products, materials, processes, and procedures that improve the corrosion condition of Marine Corps ground equipment through corrosion control Research, Development, Testing, Evaluation (RDT&amp;E) initiatives. These initiatives will support and or improve the corrosion condition of equipment such as the Amphibious Combat Vehicle (ACV), Light Armored Vehicle (LAV), Logistics Vehicle System-Replacement (LVSR), study of cost-effective CPCs.</p> <p>- Complete corrosion prevention engineering guidance to new and legacy Marine Corps ground equipment programs such as the Ultra-Light Tactical Vehicle (ULTV), Joint Light Tactical Vehicle (JLTV), and Medium Tactical Vehicle Replacement (MTVR).</p> <p>- Continue research, test, and evaluation of vendor product submissions for new corrosion control products, materials, processes, and procedures that improve the corrosion condition of Marine Corps ground equipment through the Corrosion Preventive Products and Materials (CPPM) program.</p> <p>- Continue field evaluations, product test, and environmental monitoring in advance of implementing new corrosion prevention products to determine suitability.</p> <p>- Continue to support field evaluations of equipment and environmental characterization of equipment at various geo locations throughout the Fleet Marine Force (FMF) and supporting establishments.</p> <p>- Continue to conduct studies and update corrosion technology roadmap with new technologies, processes, and advanced</p>					

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
materials for military utility. - Continue technical publication updates.  <b>FY 2025 OCO Plans:</b> N/A  <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease of \$0.107M from FY 2024 to FY 2025 continues product research to improve corrosion condition of Marine Corps ground equipment.					
<b>Accomplishments/Planned Programs Subtotals</b>	10.333	7.474	4.082	0.000	4.082

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PMC/6670: <i>Items Less Than \$5 Million</i>	26.433	27.691	26.508	-	26.508	28.002	23.359	32.164	32.758	Continuing	Continuing
• PMC/6520: <i>EOD Systems</i>	153.915	41.200	30.166	-	30.166	24.907	21.513	21.865	22.319	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

(U) Engineer Mods and Tool Kits: This is a roll-up line of various engineering efforts, modifications, and other related items less than \$5 Million each. This program provides for significant improvements to various pieces of engineering equipment by enhancing their capabilities and improving readiness.

(U) Corrosion Prevention and Control (CPAC) Program: The Program will execute the RDT&E Program with engineering support and test & evaluation services from the Naval Surface Warfare Center - Carderock Division, Corrosion Research and Engineering Branch for a comprehensive program aimed at identifying, evaluating, and certifying new corrosion control products, materials, processes, and procedures for legacy Marine Corps equipment and new acquisitions.

(U) Family of Explosive Ordnance Disposal Equipment (FEOD): The program will execute the RDT&E with product development and testing and evaluation support with Naval Information Warfare Center Pacific LEON Payload under-water robot systems to locate, identify, and neutralize those threats.

(U) Explosive Hazard Defeat System (EHDS): The program will execute the RDT&E with product development, testing, and evaluation in conjunction with Department of Energy-Lawrence Livermore for USMC Full Force Design Enhancements to conduct stand-off detection, marking, and reporting of buried, on/off -route explosive obstacles (mines, IEDs, and UXOs) from the beach exit zone to the inland objective and in wide area clearance to avoid or neutralize explosive threats.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2316 / Combat Service Support Eng Equip
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<b>Product Development (\$ in Millions)</b>				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			
FEOD	C/CPFF	DIU : Arlington, VA	2.911	0.182	Jun 2023	0.000		0.000		-		0.000	0.000	3.093	-
FEOD	WR	various : various	0.000	0.000		0.500	Feb 2024	0.000		-		0.000	0.000	0.500	-
EHDS	WR	Lawrence Livermore : Livermore, CA	0.000	3.135	Mar 2023	1.000	Dec 2023	0.000		-		0.000	0.000	4.135	-
Prior Year Cumulative Funding	C/BA	Various : Various	77.673	0.000		0.000		0.000		-		0.000	0.000	77.673	-
FEOD	C/CPFF	NAVSEA : Washington, DC	0.000	3.000	Aug 2023	0.000		0.000		-		0.000	0.000	3.000	-
<b>Subtotal</b>			80.584	6.317		1.500		0.000		-		0.000	0.000	88.401	N/A

**Remarks**  
Decrease from FY 2024 to FY 2025 is due to realignment of BA4 to Program Element: 0603635M to continue development and testing conducted by Office of Navy Research (ONR).

<b>Support (\$ in Millions)</b>				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			
CPAC	MIPR	NSWC-CD : Bethesda, MD	0.209	0.064	Jan 2023	0.074	Feb 2024	0.127	Feb 2025	-		0.127	Continuing	Continuing	Continuing
CPAC	C/FFP	NSWC-CD : Bethesda, MD	7.248	1.220	Mar 2023	1.339	Mar 2024	1.339	Mar 2025	-		1.339	Continuing	Continuing	Continuing
<b>Subtotal</b>			7.457	1.284		1.413		1.466		-		1.466	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				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 : Various	6.161	0.439	Feb 2023	0.809	Feb 2024	0.250	Mar 2025	-		0.250	Continuing	Continuing	Continuing

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2316 / Combat Service Support Eng Equip
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<b>Test and Evaluation (\$ in Millions)</b>				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)	MIPR	NSWC-CD : Bethesda, MD	19.531	1.500	Mar 2023	1.600	Mar 2024	1.143	Mar 2025	-		1.143	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NIWC-PAC : San Diego, CA	0.192	0.696	Jan 2023	0.527	Jan 2024	0.357	Jan 2025	-		0.357	0.000	1.772	-
Developmental Test & Evaluation (DT&E)	WR	NSWC-PCD : Panama City, FL	0.066	0.097	Feb 2023	0.000		0.000		-		0.000	0.000	0.163	-
Developmental Test & Evaluation (DT&E)	WR	Lawrence Livermore : Livermore, CA	0.000	0.000		1.625	Jan 2024	0.866	Jan 2025	-		0.866	0.000	2.491	-
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	C/BA	Various : Various	9.024	0.000		0.000		0.000		-		0.000	0.000	9.024	-
<b>Subtotal</b>			34.974	2.732		4.561		2.616		-		2.616	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
<b>Project Cost Totals</b>		123.015	10.333	7.474	4.082	4.082	Continuing	Continuing	N/A

**Remarks**  
 Overall decrease is primarily due to EHDS re-alignment of funds from BA7 to BA4 to Program Element: 0603635M Project Code: 7400 to allow execution via Office Navy Research (ONR) of GPR development and testing.

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2316 / Combat Service Support Eng Equip
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CPAC	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
<b>NSWC Carderock</b>																												
CPPM Product Review and Test Plan Development	CPPM & Test Plan																											
Technical Publication Review and Update	Tech Pubs																											
<b>NSWC Carderock</b>																												
Corrosion Prevention and Control Engineering	CPAC Engineering																											
Cooperative Research and Development Agreement (CRADA)	CRADA																											

2025DON - 0206624M - 2316

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2316 / Combat Service Support Eng Equip
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FEOD	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
<b>NIWC-PAC</b>																												
LEON Payload Development and Integration			LEON Development & Integration																									
<b>DIU</b>																												
AUGV Development			AUGV Development																									

2025DON - 0206624M - 2316

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Navy</b>		<b>Date:</b> March 2024
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EHDS	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
<b>Lawrence Livermore</b>																												
Development and Integration	SoDEH Development/Full Force Design Enhancements																											
Testing and Evaluation	SoDEH Testing/Full Force Design Enhancements																											

2025DON - 0206624M - 2316

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>CPAC</b>				
NSWC Carderock: CPPM Product Review and Test Plan Development: Schedule Detail	1	2023	4	2029
NSWC Carderock: Technical Publication Review and Update: Schedule Detail	1	2023	4	2029
NSWC Carderock: Corrosion Prevention and Control Engineering: Schedule Detail	1	2023	4	2029
NSWC Carderock: Cooperative Research and Development Agreement (CRADA): Schedule Detail	2	2023	1	2024
<b>FEOD</b>				
NAVSEA: LEON UUV ATLAS Development: Schedule Detail	4	2023	4	2024
DIU: AUGV Development: Schedule Detail	3	2023	3	2023
<b>EHDS</b>				
Lawrence Livermore: Development and Integration: Schedule Detail	2	2023	2	2027
Lawrence Livermore: Testing and Evaluation: Schedule Detail	1	2024	2	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>				<b>Project (Number/Name)</b> 2509 / <i>Motor Transport Mod</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2509: <i>Motor Transport Mod</i>	57.958	4.973	11.900	19.174	-	19.174	20.161	76.986	58.508	64.261	Continuing	Continuing
Quantity of RDT&E Articles		-	-	4	-	4	-	20	-	-		

**A. Mission Description and Budget Item Justification**

The Medium Tactical Vehicle Replacement (MTVR) Modification program line funds numerous modifications and initiatives required to address operational priorities, engineering change proposals (ECP), safety concerns, related travel, support equipment and other issues that affect vehicle reliability, availability, maintainability, readiness, as well as the Medium Tactical Truck (MTT). A proactive and focused approach ensures proper vehicle life-cycle management allowing the program to develop and implement improvements as required to respond to the evolving needs of the Marine Corps. MTVR funding also supports MTT Prototyping efforts that will determine maturity of technology advancement within the scope of industry production capabilities and address DoD Energy Efficiency goals while maintaining effectiveness and suitability in operational environments. The intended purpose of the MTT Prototype effort is informing requirements and cost in support of a MTVR replacement program (MTT).

The Marine Corps Tactical Motor Transport Modification (MTM) Light Tactical Vehicle Modification (LTVM) project manages life cycle sustainment for the light fleet vehicle and tactical trailer principal end items. A sustained effort is maintained in the Marine Corps for development and testing in support of the light tactical vehicle quality deficiency resolutions, technology and safety initiatives and environmental/state transportation mandated vehicle changes.

The Family of Medium/Heavy Tactical Trailers & Ancillary Equipment (FT&AE) management strategy will use RDT&E funding to explore new technology, and support related travel, that can be used to achieve optimum lift within the desired weight and cube constraints in support of the "Lightening the MAGTF" initiative, as well as improving capabilities, to include re-engineering the ground clearance on various trailers to improve off-road mobility. Transportation and expeditionary goals will be considered in the research and development for the medium/heavy trailer fleet to include (but not limited to) the M1076 PLS (Palletized Load System) Trailer, MK1077 Flatrack, MK593 6 Ton Cargo Trailer, M870 40/50 Ton Low Bed, MK970 Tactical Refueler, M149A2 400 Gallon Water Tank Trailer, M353 3.5 Ton General Purpose Trailer, and the Flatrack Refueler Capability (FRC).

The Family of Logistics Vehicle System Replacement (LVSR) is the Marine Air-Ground Task Force (MAGTF) Heavy Lift Capability system. This line funds numerous modifications and initiatives that are required to address operational priorities, engineering change proposals, safety concerns, related travel, support equipment and other issues that affect vehicle reliability, availability, maintainability and readiness. A proactive and focused approach ensures proper vehicle life-cycle management and allows the flexibility to develop and implement improvements as required to respond to the evolving needs of the Marine Corps.

The Family of P-19 Replacement (P-19R) replaced the obsolete A/S32P-19A Crash Fire Rescue fleet in support of expeditionary airfield operations and the supporting establishment. The vehicle is outfitted with advanced fire suppression equipment. It provides rescue and aircraft firefighting capabilities to permanent and expeditionary airfields throughout the Marine Corps. The P-19R is also employed to fight structural fires in support of base camps and as firefighting support to other elements of the Marine Air Ground Task Force (MAGTF), such as ammunition supply points, Petroleum, Oil and Lubricant (POL) distribution points or hazardous material storage

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2509 / <i>Motor Transport Mod</i>
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facilities. P-19R funding will support ECP efforts, testing and analysis, and related travel needed in order to improve firefighting capabilities. ECPs, such as the Forward Looking Infrared (FLIR) and Non-Fluorine Film Forming Foam, will improve visibility, environmental safety, and effectiveness related to the vehicle.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<b>Title:</b> Medium Tactical Vehicle Replacement (MTVR)	3.645	11.328	15.658	0.000	15.658
<b>Articles:</b>	-	-	4	-	4
<b>FY 2024 Plans:</b>					
<ul style="list-style-type: none"> <li>- Continue Medium Tactical Trucks (MTT) competitive prototype efforts, such as awarding competitive prototypes, focusing on areas such as technology maturity, operational effectiveness, and energy efficiency considerations.</li> <li>- Continue ECP/safety mods of the MTVR as required.</li> <li>- Continue Test &amp; Evaluation efforts supporting ECP/safety mods of the MTVR as required to provide survivability upgrades in response to continual changes in the threat environment to protect the warfighter and vehicle from possible catastrophic events, in order to meet current and future operations.</li> <li>- Continue addressing ongoing obsolescence issues related to an aging fleet of vehicles through on-going science and engineering support, to include material characterizations, modeling and simulation, root-cause analyses, and design &amp; process improvement recommendations from the Production Quality Deficiency Reports (PQDR).</li> </ul>					
<b>FY 2025 Base Plans:</b>					
<ul style="list-style-type: none"> <li>- Continue Medium Tactical Trucks (MTT) competitive prototype efforts focusing on areas such as technology maturity, operational effectiveness, and energy efficiency considerations. Procure 4 MTT prototypes of varying configurations. Selected vendors will provide MTT prototype variants to ensure the Government is able to test across a wide range of vehicle weights and configurations in a timely and effective manner.</li> <li>- Continue ECP/safety mods of the MTVR as required.</li> <li>- Continue Test &amp; Evaluation efforts supporting ECP/safety mods of the MTVR as required to provide survivability upgrades in response to continual changes in the threat environment to protect the warfighter and vehicle from possible catastrophic events, in order to meet current and future operations.</li> <li>- Continue addressing ongoing obsolescence issues related to an aging fleet of vehicles through on-going science and engineering support, to include material characterizations, modeling and simulation, root-cause analyses, and design &amp; process improvement recommendations from the Production Quality Deficiency Reports (PQDR).</li> </ul>					
<b>FY 2025 OCO Plans:</b>					



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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy			<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2509 / Motor Transport Mod			
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>					
	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
FT&AE decrease from FY 2024 to FY 2025 of \$0.003M due to changes in test and analysis efforts related to fleet mobility requirements.					
<b>Title:</b> Logistics Vehicle System Replacement (LVSR)					
<b>Articles:</b>	0.590	0.307	0.297	0.000	0.297
	-	-	-	-	-
<b>FY 2024 Plans:</b>					
- Continue to support the development of Engineering Change Proposals (ECPs) related to readiness, safety and reliability of the Logistics Vehicle System Replacement (LVSR) Family of Vehicles.					
<b>FY 2025 Base Plans:</b>					
- Continue to support the development of Engineering Change Proposals (ECPs) related to readiness, safety and reliability of the Logistics Vehicle System Replacement (LVSR) Family of Vehicles.					
<b>FY 2025 OCO Plans:</b>					
N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b>					
LVSR decrease from FY 2024 to FY 2025 of \$0.010M due to changes associated with development of ECPs.					
<b>Title:</b> Family of Expeditionary Firefighting and Rescue Vehicles (P-19R)					
<b>Articles:</b>	0.567	0.000	2.974	0.000	2.974
	-	-	-	-	-
<b>FY 2024 Plans:</b>					
N/A					
<b>FY 2025 Base Plans:</b>					
-Initiate the development and testing of Engineering Change Proposals (ECPs) related to readiness, safety and reliability of the P-19R to include Forward Looking Infrared (FLIR) and Non-Fluorine Film Forming Foam.					
<b>FY 2025 OCO Plans:</b>					
N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b>					
P-19R increase from FY 2024 to FY 2025 of \$2.974M due to development and testing of Engineering Change Proposals (ECPs) related to readiness, safety and reliability of the P-19R to include Forward Looking Infrared (FLIR) and Non-Fluorine Film Forming Foam.					
<b>Accomplishments/Planned Programs Subtotals</b>	4.973	11.900	19.174	0.000	19.174

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2509 / Motor Transport Mod
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**C. Other Program Funding Summary (\$ in Millions)**

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PMC/5050-01: Motor T Mod/MTVR	10.390	8.941	8.439	-	8.439	24.918	8.449	8.479	8.577	Continuing	Continuing
• PMC/5050-02: Motor T Mod/LVSR	1.278	1.092	1.063	-	1.063	3.013	3.075	3.138	3.149	Continuing	Continuing
• PMC/5050-03: Light Tactical Vehicle Modifications (LTVM)	0.489	3.565	3.094	-	3.094	3.636	3.626	3.539	3.614	Continuing	Continuing
• PMC/5050-04: Motor T Mod/P19-R	0.196	0.418	1.410	-	1.410	6.054	11.457	1.003	1.026	Continuing	Continuing
• PMC/5050-05: Family of Tactical Trailers	2.448	3.283	3.298	-	3.298	3.142	3.200	3.266	3.334	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The Medium Tactical Vehicle Replacement (MTVR) Modification line, in support of Medium Tactical Trucks (MTT), will execute a competitive prototype phase through the use of Other Transaction Authority to award multiple agreements. Agreements will seek an incentivized Independent Research and Development (IRAD) cost structure or significant involvement from non-traditional Contractors to meet OTA requirements. Prototypes will be developed, built, and tested during this phase. Based on competitive prototyping efforts, conditions will be in place to support a FY 2026 Milestone B decision. MTT will then transition to an Engineering Manufacturing & Development Phase (FY 2027-FY 2029) followed by a Production & Deployment Phase (FY 2030-FY 2034).

Light Tactical Vehicle Modification (LTVM) focuses on modifications required to increase fleet readiness and to address, safety and environmental/state transportation mandated vehicle changes.

The Family of Medium/Heavy Tactical Trailers & Ancillary Equipment (FT&AE) acquisition strategy will use RDT&E funding to explore current and new technologies options that can be used to achieve optimum lift within the desired weight and cube constraints in support of the "Lightening the MAGTF" initiative, as well as sustaining and/or improving capabilities, such as re-engineering the ground clearance on various trailers. When available, emphasis for executing the efforts maximize the use of existing Commercial Off The Shelf (COTS), Government Off The Shelf (GOTS), Non Developmental Items (NDI) and Government Furnished Equipment (GFE).

The Family of Logistics Vehicle System Replacement (LVSR) program is currently in sustainment utilizing RDT&E funding to address required Engineering Change Proposals (ECPs) and safety modifications.

The Family of P-19 Replacement (P-19R) is currently in sustainment utilizing RDT&E funding to research, develop, and evaluate Engineering Change Proposals (ECPs) and safety modifications such as the Forward Looking Infrared and Non-Fluorine Film Forming Foam.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2509 / Motor Transport Mod
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<b>Product Development (\$ in Millions)</b>				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			
MTT Prototype Development	Various	Various : Various	0.000	3.133	May 2023	11.208	Mar 2024	15.619	Dec 2024	-		15.619	Continuing	Continuing	Continuing
P-19R ECP Modifications	Various	Various : Various	0.000	0.000		0.000		2.474	Mar 2025	-		2.474	Continuing	Continuing	Continuing
LVSr ECP Modifications	Various	Various : Various	0.618	0.590	Jan 2023	0.307	Dec 2023	0.297	Dec 2024	-		0.297	Continuing	Continuing	Continuing
Prior Years Cumulative Funding	Various	Various : Various	37.854	0.000		0.000		0.000		-		0.000	0.000	37.854	-
<b>Subtotal</b>			38.472	3.723		11.515		18.390		-		18.390	Continuing	Continuing	N/A

**Remarks**  
 MTT - increase from FY 2024 to FY 2025 is due to procurement of 4 MTT prototypes.  
 P-19R - increase from FY 2024 to FY 2025 is due to development of ECPs related to readiness, safety, and reliability.  
 LVSr - decrease from FY 2024 to FY 2025 is due to changes associated with development of ECPs.

<b>Support (\$ in Millions)</b>				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			
Prior Years Cumulative Funding	Various	Various : Various	0.105	0.000		0.000		0.000		-		0.000	0.000	0.105	-
<b>Subtotal</b>			0.105	0.000		0.000		0.000		-		0.000	0.000	0.105	N/A

<b>Test and Evaluation (\$ in Millions)</b>				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			
Operational Test & Evaluation (OT&E)	Various	Various : Various	17.591	1.250	Mar 2023	0.368	Dec 2023	0.784	Dec 2024	-		0.784	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	Various	Various : Various	1.790	0.000	Aug 2023	0.017	Dec 2023	0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			19.381	1.250		0.385		0.784		-		0.784	Continuing	Continuing	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2509 / Motor Transport Mod
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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			

**Remarks**  
OT&E - increase from FY 2024 to FY 2025 is primarily due to P-19R testing of Forward Looking Infrared and Non-Fluorine Foam.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	57.958	4.973	11.900	19.174	-	19.174	Continuing	Continuing	N/A

**Remarks**  
Overall increase from FY 2024 to FY 2025 is largely attributed to procurement of multiple configurations of MTT prototypes and P-19R ECP efforts.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy

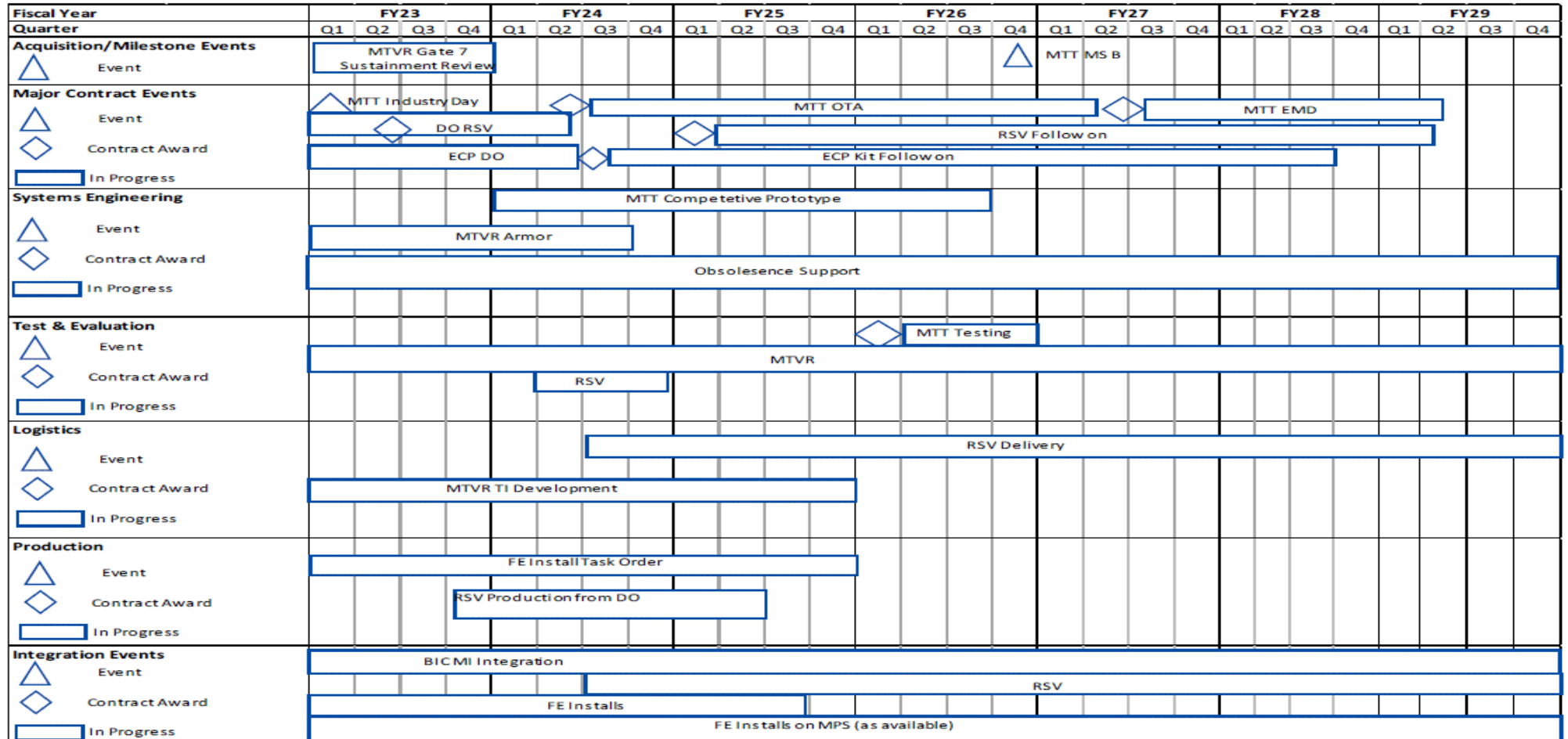
Date: March 2024

Appropriation/Budget Activity  
1319 / 7

R-1 Program Element (Number/Name)  
PE 0206624M / Marine Corps Cmbt Services Supt

Project (Number/Name)  
2509 / Motor Transport Mod

MTVR Integrated Program Plan



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2509 / <i>Motor Transport Mod</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>MTVR</b>				
ECP Safety Mod Testing and Analysis	1	2023	4	2029
MTT - Other Transaction Authority (OTA) / Prototype	2	2024	2	2027
MTT - Milestone B	4	2026	4	2026

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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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
2510: MAGTF CSSE & SE	49.202	9.191	7.714	6.271	-	6.271	6.443	10.635	9.086	9.779	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

A key enabler in support of Expeditionary Advanced Base Operations, austere base establishment in Littoral Operations in Contested Environments (LOCE), and Indo-Pacific, Environmental Control Equipment, Mobile Power Equipment, and Advanced Power Sources, are a part of Expeditionary Energy Initiatives that will ultimately support Force Design in enabling such systems and operations as Air Defense systems, C2 Degraded environment systems, Close Combat lethality systems, and Information Warfare.

**A. Mission Description and Budget Item Justification**

The Family of Mobile Power Systems (MPS) consists of a wide range of current and emerging technologies for mobile power generation, storage, distribution systems, and environmental control equipment necessary to provide continuous, uninterrupted, electrical power and climate control in austere and expeditionary environments. MPS enables the functionality of critical weapons, optics, medical, C5ISR, and life support capabilities required at Advanced Naval and Base sites.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<b>Title:</b> Family of Mobile Power Systems	9.191	7.714	6.271	0.000	6.271
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b>					
- Continue technology development and system requirement technical reviews for the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).					
- Continue prototype development of the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).					
- Initiate developmental effort to produce a new hybrid Environmental Control Unit (ECU) capability that will consolidate two legacy materiel solutions into a single solution, resulting in lower total ownership costs, reduced fuel consumption, smaller logistics footprint, and utilize refrigerants that are less impactful on the environment.					
<b>FY 2025 Base Plans:</b>					
- Continue technology developmental efforts to produce a new hybrid Environmental Control Unit (ECU) capability that will consolidate two legacy materiel solutions into a single solution, resulting in lower total ownership costs, reduced fuel consumption, smaller logistics footprint, and utilize refrigerants that are less impactful on the environment.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2510 / <i>MAGTF CSSE &amp; SE</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
- Complete prototype development of the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS). - Initiate development and battery certification testing for the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).  <b>FY 2025 OCO Plans:</b> N/A  <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The decrease of \$1.443M from FY2024 to FY2025 is due to the completion of prototype development of the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).					
<b>Accomplishments/Planned Programs Subtotals</b>	9.191	7.714	6.271	0.000	6.271

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PMC/6366: <i>Mobile Power Equipment</i>	5.841	28.899	23.411	-	23.411	29.256	29.864	28.997	31.214	0.000	658.152

**Remarks**

**D. Acquisition Strategy**  
 Family of Mobile Power Systems

The Family of Mobile Power System (MPS) acquisition strategy is to participate in Small Business Innovation Research and related programs, award procurement contracts through Marine Corps Systems Command contracting office, and secure services through Navy and Army Warfare Centers needed to develop, modify, procure, and provide life cycle sustainment for a portfolio of power generation, storage, and distribution systems, and environmental control equipment. Multiple developmental, procurement, and sustainment efforts are executed from MPS to ensure hybrid, renewable, scalable, and modular power solutions align with Marine Corps Combat Development Command's Force Design 2030 and Force Modernization directives. These efforts include, but are not limited to, the Mobile Electric Hybrid Power System, Intelligent Power Management System, Environmental Control Units, Field Refrigeration Systems, and Small Unit Power/Micro Power programs.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2025 Navy</b>											<b>Date: March 2024</b>				
<b>Appropriation/Budget Activity</b> 1319 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt					<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE				

<b>Product Development (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
IPMS Micro Grid Storage	C/FFP	AFLCMC : HANSCOM AFB	5.770	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Small Unit Power	MIPR	NSWC-CD : Bethesda, MD	2.321	0.000		0.000		0.000		-		0.000	0.000	2.321	-
IPMS Energy Storage Unit	C/FFP	DIU : Mountain View, CA	0.000	7.566	Jun 2023	6.563	Dec 2023	3.232	Dec 2024	-		3.232	0.000	17.361	-
Hybrid Environmental Control Unit	TBD	TBD : TBD	0.000	0.000		0.481	Dec 2023	0.400	Dec 2024	-		0.400	0.000	0.881	-
Small Unit Power - Micro Power Prototype	C/FFP	MCSC : Quantico, VA	1.274	0.000	Mar 2023	0.000		0.000		-		0.000	0.000	1.274	-
SFRS Replacement	C/FFP	MCSC : Quantico, VA	0.800	0.000		0.000		0.000		-		0.000	0.000	0.800	-
Prior Years Cumulative Funding	Various	Various : Various	23.534	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			33.699	7.566		7.044		3.632		-		3.632	Continuing	Continuing	N/A

**Remarks**  
Decrease from FY 2024 to FY 2025 is due to the completion of prototype development of the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).

<b>Support (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
IPMS Energy Storage	MIPR	C5ISR-EIO : Aberdeen, MD	0.362	0.150	Nov 2022	0.150	Nov 2023	0.025	Nov 2024	-		0.025	0.000	0.687	-
IPMS Energy Storage	MIPR	ATC : Aberdeen, MD	0.167	0.100	Nov 2022	0.100	Nov 2023	0.025	Nov 2024	-		0.025	0.000	0.392	-
IPMS Energy Storage	C/BA	NSWC-CD : Bethesda, MD	0.080	0.100	Nov 2022	0.100	Nov 2023	0.025	Nov 2024	-		0.025	0.000	0.305	-
Small Unit Power	C/BA	NSWC-CD : Bethesda, MD	0.357	0.205	Jun 2023	0.100	Nov 2023	0.000		-		0.000	0.000	0.662	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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<b>Support (\$ in Millions)</b>				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			
Prior Years Cumulative Funding	Various	Various : Various	0.759	0.000		0.000		0.000		-		0.000	0.000	0.759	-
IPMS Energy Storage	FFRDC	MIT-Lincoln Labs : Lexington, MA	0.000	0.702	Mar 2023	0.000		0.000		-		0.000	0.000	0.702	-
<b>Subtotal</b>			1.725	1.257		0.450		0.075		-		0.075	0.000	3.507	N/A

**Remarks**  
Decrease from FY 2024 to FY 2025 is due to the reduction in support required for IPMS-ESU.

<b>Test and Evaluation (\$ in Millions)</b>				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)	MIPR	ABERDEEN TEST CENTER : ABERDEEN MD	0.566	0.368	Jun 2023	0.220	Jun 2024	1.032	Mar 2025	-		1.032	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	MIPR	NSWC CARDEROCK : CARDEROCK MD	0.453	0.000		0.000		1.532	Mar 2025	-		1.532	0.000	1.985	-
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	Various	Various : Various	10.219	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			11.238	0.368		0.220		2.564		-		2.564	Continuing	Continuing	N/A

**Remarks**  
The increase from FY 2024 to FY 2025 is primarily due to the start of developmental testing and lithium battery certification testing for the Intelligent Power Management System (IPMS) Energy Storage Unit.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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<b>Management Services (\$ in Millions)</b>				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			
PM support for development and test mgmt	C/FFP	MCSC : Quantico, VA	2.540	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			2.540	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	
<b>Project Cost Totals</b>		49.202	9.191	7.714	6.271	-	6.271	Continuing	Continuing	N/A

**Remarks**  
 Funding decrease from FY 2024 to FY 2025 is due to the completion of prototype development of the Energy Storage Unit (ESU) in support of Intelligent Power Management System (IPMS).

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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<b>Multi-Refrigerant TRICON System formerly known as SFRS</b>	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							
	Dev & Validation Testing								Production																										

2025DON - 0206624M - 2510

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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IPMS ESU	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
			CA ▲								DT																	

2025DON - 0206624M - 2510

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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SMALL UNIT/MICRO POWER	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 REQUIREMENT TECH REVIEWS																											
	CA ▲								DT																			

2025DON - 0206624M - 2510

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

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2510 / MAGTF CSSE & SE
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Hybrid Environmental Control Unit	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 REQUIREMENT TECH REVIEWS								CA ▲					DT																		

2025DON - 0206624M - 2510

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2510 / <i>MAGTF CSSE &amp; SE</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Multi-Refrigerant TRICON System formerly known as SFRS</b>				
TEST & EVALUATION - PHASE III	1	2023	2	2024
MS C	4	2024	4	2028
<b>IPMS ESU</b>				
CONTRACT AWARD (PROTOTYPE)	3	2023	3	2023
DEVELOPMENT TESTING	3	2025	4	2025
<b>SMALL UNIT/MICRO POWER</b>				
TECHNICAL REVIEWS	2	2023	2	2023
CONTRACT AWARD	2	2023	2	2023
DEVELOPMENT TESTING	2	2024	2	2025
<b>Hybrid Environmental Control Unit</b>				
TECHNICAL REVIEWS / VENDOR EVALUATION	2	2024	4	2025
CONTRACT AWARD (PROTOTYPE)	1	2026	1	2026
DEVELOPMENTAL TESTING	4	2026	2	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt				<b>Project (Number/Name)</b> 2929 / Testing Measuring Diag Equip & SE			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2929: Testing Measuring Diag Equip & SE	13.962	0.650	0.706	4.114	-	4.114	0.728	0.740	0.754	0.770	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Family of Automatic Test Systems (ATS) provides organic test capabilities for use by Marine Corps maintainers in garrison and deployed environments to support activities aligned to condition/predictive based maintenance, equipment diagnostics, and fault isolation on multiple platforms such as radio test sets that will be employed in the Expeditionary Advanced Base Operations (EABO) and littoral operational environment. ATS funding strategy supports Force Design 2030 initiatives and EABO by providing automatic test capabilities to the lowest level possible in order diagnose/repair as forward as possible.

Conditions Based Maintenance (CBM+) is a maintenance strategy that seeks to collect, transmit, store, analyze and act on data from sensors on platform and historic maintenance data in GCSS-MC. The program provides data logging hardware to install on platforms in garrison, employed in the Expeditionary Advanced Base Operations (EABO) and in littoral operational environments. The Program also provides predictive analytics software that transforms maintenance and sensor data into valuable user insights IOT enable data driven solutions to maintenance and supply issues at all levels of the Marine Corps enterprise.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> Conditions Based Maintenance (CBM+)	0.000	0.000	3.400	0.000	3.400
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b> N/A					
<b>FY 2025 Base Plans:</b> - Initiate development of predictive and prognostic analytic models that use artificial intelligence and machine learning to provide outputs to Marine Maintainers enabling action before failure. - Initiate development of tools to integrate analytic model outputs with GCSS-MC and supply support entities to overcome supply chain challenges.					
<b>FY 2025 OCO Plans:</b> N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2929 / Testing Measuring Diag Equip & SE

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
The \$3.400M increase from FY24 to FY25 is a result of the initiation of development of predictive and prognostic analytic models.					
<b>Title:</b> Automatic Test Systems (ATS)	0.650	0.706	0.714	0.000	0.714
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b> -Continue developmental through phase-approach and testing efforts associated with the General Purpose Automatic Test System Electro Optic Controller. This capability provides Marine Corps maintainers the ability to execute fault diagnostics and test a multitude of ground platforms that contain optics or fiber optic capabilities. -Continue development of self-test scripts for Hand-Held Radio Test Sets (HHRTS). The HHRTS supports organic testing of software defined crypto-compliment ground radio platforms. -Continue artificial intelligence various Automatic Test Equipment (ATE). Artificial Intelligence will eliminate user interaction for running user test scripts, reducing manpower requirements.					
<b>FY 2025 Base Plans:</b> -Continue developmental through phase-approach and testing efforts associated with the General Purpose Automatic Test System Electro Optic Controller. This capability provides Marine Corps maintainers the ability to execute fault diagnostics and test a multitude of ground platforms that contain optics or fiber optic capabilities. -Initiate development of self-test scripts for Tactical Radio Intermediate Test Sets (TRITS). The TRITS supports organic testing of software defined crypto-compliment ground radio platforms. -Continue artificial intelligence various Automatic Test Equipment (ATE). Artificial Intelligence will eliminate user interaction for running user test scripts, reducing manpower requirements.					
<b>FY 2025 OCO Plans:</b> N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The \$8K increase from FY24 to FY25 is a result of the initiation of development of self-test scripts for Tactical Radio Intermediate Test Sets (TRITS).					
<b>Accomplishments/Planned Programs Subtotals</b>	0.650	0.706	4.114	0.000	4.114

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024	
<b>Appropriation/Budget Activity</b> 1319 / 7				<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt				<b>Project (Number/Name)</b> 2929 / Testing Measuring Diag Equip & SE			

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PMC/4181/ATS: Automatic Test Systems (ATS)	12.030	10.537	10.693	-	10.693	12.007	6.433	6.561	6.699	0.000	150.444
• PMC/4181/CBM+: Conditioned Based Maintenance (CBM+)	0.000	0.000	8.515	-	8.515	2.625	2.805	3.005	3.006	0.000	19.956

**Remarks**

**D. Acquisition Strategy**

Automatic Test Systems (ATS) acquisition is being done through U.S. Army Armament Research, Development & Engineering Center (ARDEC), Picatinny, NJ both in-house and contracts; In-house at Marine Corps Logistics Command (MCLC), Albany, GA; In-house at Naval Surface Warfare Center, Crane, and through Marine Corps Systems Command contracts.

The Conditions Based Maintenance (CBM+) acquisition is being done through NSWC, Crane both in-house and contracts.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / Marine Corps Cmbt Services Supt	<b>Project (Number/Name)</b> 2929 / Testing Measuring Diag Equip & SE
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<b>Product Development (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
OT&E ATS Tech Eval & HW Digital Test	WR	MCLC Albany : Albany, GA	3.991	0.650	Feb 2023	0.706	Feb 2024	0.714	Feb 2025	-		0.714	Continuing	Continuing	Continuing
Prior Years Cumulative Funding	Various	Various : Various	5.993	0.000		0.000		0.000		-		0.000	0.000	5.993	-
OT&E CBM+	Various	NSWC Crane : Crane, IN	0.000	0.000		0.000		3.400	Feb 2025	-		3.400	0.000	3.400	-
<b>Subtotal</b>			9.984	0.650		0.706		4.114		-		4.114	Continuing	Continuing	N/A

**Remarks**  
The increase from FY 2024 to FY 2025 supports the continuation of artificial intelligence for various Automatic Test Equipment (ATE) and development of predictive and prognostic analytic models and development of tools to integrate analytic model outputs with GCSS-MC and supply support entities for CBM+.

<b>Support (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Prior Years Cumulative Funding	Various	Various : Various	3.978	0.000		0.000		0.000		-		0.000	0.000	3.978	-
<b>Subtotal</b>			3.978	0.000		0.000		0.000		-		0.000	0.000	3.978	N/A

	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>		13.962	0.650	0.706	4.114	-	4.114	Continuing	Continuing	N/A

**Remarks**



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0206624M / <i>Marine Corps Cmbt Services Supt</i>	<b>Project (Number/Name)</b> 2929 / <i>Testing Measuring Diag Equip &amp; SE</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2929</b>				
ATS: ATS Product Development	1	2023	4	2029
CBM+: CBM+ Product Development	2	2025	1	2026