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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604657M / <i>MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	19.312	28.472	42.144	45.025	-	45.025	66.275	47.085	41.100	41.767	Continuing	Continuing
2997: <i>Future OPF Munitions Development</i>	0.000	0.000	0.000	0.000	-	0.000	21.098	25.691	27.422	27.937	Continuing	Continuing
7400: <i>Combat Capability Development Transition</i>	19.312	28.472	42.144	45.025	-	45.025	45.177	21.394	13.678	13.830	Continuing	Continuing

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

Organic Precision Fires (OPF) is a Service Force Design priority and will provide multiple echelons of the Fleet Marine Force with an organic, loitering, beyond-line-of-sight precision strike capability. OPF has demonstrated through extensive war-gaming and simulation, combined with experience gained in real world operations, that it will significantly improve the organic lethality of infantry and reconnaissance formations. Providing a Hunter (Group 2 UAS) - Killer (loitering munition) combination, OPF will deliver precision effects as well as surveillance before, during, and after striking targets, at ranges beyond 40 kilometers, while reducing the potential for collateral damage. As such, the OPF capability is a critical element of force modernization to close the gap between long range/precision fires and close-combat weapons.

OPF will develop a vehicle mounted, universal, multi-canister launch platform integrated onto multiple vehicles such as the Light Armored Vehicle (LAV) or Joint Light Tactical Vehicle (JLTV); a Stalker Group 2 UAS; and a Government Command and Control (C2) system. The OPF munitions will use a variety of fuse and munition combinations capable of providing diverse operational effects. OPF will also develop the offensive capability for the Long Range Unmanned Surface Vessel (LRUSV) as well as a single launch, dismounted capability, fired from the ground and transported via Ultra-Light Tactical Vehicle (ULTV) or backpack.

In FY 2023, the Marine Corps will initiate OPF Light, a new capability with a separate materiel solution from OPF (vehicle mounted) in support of Force Design 2030. It provides a dismounted, lightweight, man portable, loitering munition that extends the capability of the infantry battalion to strike targets out to the maximum range of organic Intelligence, Surveillance, and Reconnaissance (ISR) assets at the platoon and squad level. The OPF Light program will develop a miniaturized version of the Government's C2 system for a man-portable dismounted configuration.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	29.467	42.144	0.000	-	0.000
Current President's Budget	28.472	42.144	45.025	-	45.025
Total Adjustments	-0.995	0.000	45.025	-	45.025
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.995	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	45.025	-	45.025

**Change Summary Explanation**

Net increase of \$2.881M from FY 2022 to FY 2023 is due to completion of prototype universal mount, launcher, C2, and the universal mount integration for the LAV variant; and the initiation of OPF Light capability.

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FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604657M / MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST				<b>Project (Number/Name)</b> 2997 / Future OPF Munitions Development			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2997: Future OPF Munitions Development	0.000	0.000	0.000	0.000	-	0.000	21.098	25.691	27.422	27.937	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Organic Precision Fires (OPF) is a critical Force Design program and will provide multiple echelons of the Fleet Marine Force an organic, loitering, beyond-line-of-sight precision strike capability. OPF has demonstrated through extensive war-gaming and simulation, combined with experience gained in real world operations, that it will significantly improve the organic lethality of infantry and reconnaissance formations. Providing a Hunter (Group 2 UAS) - Killer (loitering munition) combination, OPF will deliver precision effects as well as surveillance before, during, and after striking targets, at ranges beyond 40 kilometers, while reducing the potential for collateral damage. As such, the OPF capability is a critical element of force modernization to close the gap between long range/precision fires and close-combat weapons.

OPF will develop a vehicle mounted, universal, multi-canister launch platform integrated onto multiple vehicles such as the Light Armored Vehicle (LAV) or Joint Light Tactical Vehicle (JLTV); a Stalker Group 2 UAS; and a Government Command and Control (C2) system. The OPF munitions will use a variety of fuse and munition combinations capable of providing diverse operational effects. OPF will also develop the offensive capability for the Long Range Unmanned Surface Vessel (LRUSV) as well as a single launch, dismounted capability, fired from the ground and transported via Ultra-Light Tactical Vehicle (ULTV) or backpack.

Beginning in FY 2024, the Marine Corps will develop additional munition capabilities.

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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
7400: <i>Combat Capability Development Transition</i>	19.312	28.472	42.144	45.025	-	45.025	45.177	21.394	13.678	13.830	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Organic Precision Fires (OPF) is a Service Force Design priority and will provide multiple echelons of the Fleet Marine Force with an organic, loitering, beyond-line-of-sight precision strike capability. OPF has demonstrated through extensive war-gaming and simulation, combined with experience gained in real world operations, that it will significantly improve the organic lethality of infantry and reconnaissance formations. Providing a Hunter (Group 2 UAS) - Killer (loitering munition) combination, OPF will deliver precision effects as well as surveillance before, during, and after striking targets, at ranges beyond 40 kilometers, while reducing the potential for collateral damage. As such, the OPF capability is a critical element of force modernization to close the gap between long range/precision fires and close-combat weapons.

OPF will develop a vehicle mounted, universal, multi-canister launch platform integrated onto multiple vehicles such as the Light Armored Vehicle (LAV) or Joint Light Tactical Vehicle (JLTV); a Stalker Group 2 UAS; and a Government Command and Control (C2) system. The OPF munitions will use a variety of fuse and munition combinations capable of providing diverse operational effects. OPF will also develop the offensive capability for the Long Range Unmanned Surface Vessel (LRUSV) as well as a single launch, dismounted capability, fired from the ground and transported via Ultra-Light Tactical Vehicle (ULTV) or backpack.

FY 2021 conducted an OPF demonstration for competitive selection and follow-on award for three prototypes, integration, and testing on the LAV. FY 2022 procures one prototype for integration and testing on the JLTV, and completes integration and testing for the LAV culminating in an Early Operational Assessment (EOA) in FY 2023. The EOA will refine requirements, at which time the program will transition into the Major Capability Acquisition pathway at Milestone B. The program will initiate launcher improvements to reduce reload times and migrate vendor controls to a common Government C2 platform. User evaluations are scheduled with Operational Force units (LAV variant) to validate Concepts of Operation and Tactics, Techniques, and Procedures. These events will help identify any future support required for long term training and sustainment. The user evaluations and feedback will also inform the continued development of the training simulator, characterize the required skills of the operator, and reduce training time/cost. The OPF JLTV variant will undergo road testing and user evaluation prior to procurement.

In FY 2023, the Marine Corps will initiate OPF Light, a new capability with a separate materiel solution from OPF (vehicle mounted) in support of Force Design 2030. It provides a dismounted, lightweight, man-portable, loitering munition that extends the capability of the infantry battalion to strike targets out to the maximum range of organic Intelligence, Surveillance, and Reconnaissance (ISR) assets at the platoon and squad level. The OPF Light program will develop a miniaturized version of the Government's C2 system for a man-portable dismounted configuration.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> Organic Precision Fires (OPF)	28.472	42.144	45.025	0.000	45.025
<b>Articles:</b>	3	1	-	-	-

PE 0604657M: MARINE CORPS GROUND COMBAT/SUPPORTING AR...  
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<p><b>FY 2022 Plans:</b></p> <ul style="list-style-type: none"> <li>- Completed C2, software development and assembly and integration of the universal mount, launcher, and C2 for the LAV</li> <li>- Completed development and testing of Gimble and Camera upgrade</li> <li>- Procured one prototype Stalker for hunter capabilities</li> <li>- Procured 116 munitions for testing</li> <li>- Conducted Munitions Safety and Performance testing leading into Live Fire Test</li> <li>- Procured one prototype universal launcher, mount, and C2 for the JLTV</li> <li>- Completed integration of universal mount for LAV variant</li> <li>- Initiated integration of universal mount for the JLTV variant</li> <li>- Initiated development of inert munitions</li> <li>- Initiated analysis and development of training systems requirements</li> </ul> <p><b>FY 2023 Base Plans:</b></p> <p>OPF</p> <ul style="list-style-type: none"> <li>- Complete integration and testing of universal mount for JLTV variant</li> <li>- Complete development of inert munition</li> <li>- Obtain 122 munitions for testing</li> <li>- Conduct New Equipment Training (NET) in support of Early Operational Assessment (EOA)</li> <li>- Conduct EOA</li> <li>- Conduct full system integration testing with the Stalker (Hunter)</li> <li>- Conduct post EOA user evaluation to inform system improvements</li> <li>- Complete analysis and development of training systems requirements and improve training simulator</li> <li>- Initiate improvements and testing to government C2 capabilities and launcher improvements to reduce reload times</li> </ul> <p>OPF Light</p> <ul style="list-style-type: none"> <li>- Conduct market analysis for material specification</li> <li>- Initiate C2 development and testing of the Government's C2 system into a man-portable dismounted configuration</li> <li>- Coordinate range and conduct vendor demonstration</li> </ul> <p><b>FY 2023 OCO Plans:</b></p>					

PE 0604657M: MARINE CORPS GROUND COMBAT/SUPPORTING AR...  
Navy

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
N/A					
<b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> Net increase of \$2.881M from FY 2022 to FY 2023 is due to completion of prototype universal mount, launcher, C2, and the universal mount integration for the LAV variant; and the initiation of OPF Light capability.					
<b>Accomplishments/Planned Programs Subtotals</b>	28.472	42.144	45.025	0.000	45.025

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

<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PMC/4733: Organic Precision Fires (OPF)	24.934	33.808	48.322	-	48.322	302.107	397.874	430.356	271.260	0.000	1,920.663
• PMC/3088: Family of Loitering Munitions	0.000	0.000	0.000	-	0.000	35.070	112.219	112.212	114.456	0.000	373.957

**Remarks**

\*OPF is not the only program within BLI

**D. Acquisition Strategy**

The OPF program's acquisition strategy is to utilize Mid-Tier Acquisition authorities to reduce program risk by developing a system level prototype, further maturing the technology and gaining user feedback to inform the Capabilities Development Document in support of a Service decision to transition to a Major Capability Acquisition pathway. It will leverage the prototype development and deliver capabilities for ground and sea launched loitering munitions. This strategy allows the program office to competitively develop and procure a multi-canister launcher, universal mounting kit, and a government command and control system to provide the Marine Corps with a scalable-tiered organic precision fires to meet current and future operational requirements.

The Marine Corps invited multiple vendors to participate in discussion leading to a proposal describing system attributes, cost, and schedule. Following an evaluation of all proposals, a competitive award to four vendors via Other Transaction Agreements (OTA) led to a demonstration in FY 2021 of their ability to meet emerging military needs. Following the demonstration, the program will award an OTA to a single vendor to further mature the technology, reduce risk, and refine requirements. In FY 2023, an Early Operational Assessment (EOA) with trained users and the OPF prototypes will validate employment concepts and further refine requirements. The results of the EOA will transition the program into the Major Capability Acquisition pathway at Milestone B.

The OPF Light acquisition strategy includes the initiation of market research to inform the requirement, development of a performance specification, and a draft Request For Proposal (RFP) release leading into an industry day and vendor demonstration. This strategy allows the program to be assessed at a Materiel Development Decision (MDD) for entrance into the Major Capability Acquisition pathway.

PE 0604657M: MARINE CORPS GROUND COMBAT/SUPPORTING

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604657M / MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST	<b>Project (Number/Name)</b> 7400 / Combat Capability Development Transition
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
OPF Dev- Demonstration - OTA	C/FFP	Raytheon : Tucson, AZ	1.327	0.000		0.000		0.000		-		0.000	0.000	1.327	-
OPF Dev- Demonstration - OTA	C/FFP	EFW : Fort Worth, TX	4.100	0.000		0.000		0.000		-		0.000	0.000	4.100	-
OPF Dev- Demonstration - OTA	C/FFP	Aeroenvironment : Simi Valley CA	5.200	1.003	Oct 2020	0.000		0.000		-		0.000	0.000	6.203	-
OPF Dev- Demonstration - OTA	C/FFP	Mistral : Bethesda, MD	4.813	1.448	Nov 2020	0.000		0.000		-		0.000	0.000	6.261	-
OPF Vendor Development	C/CPFF	Mistral : Bethesda, MD	0.000	9.407	Apr 2021	5.407	Nov 2021	3.470	Nov 2022	-		3.470	Continuing	Continuing	Continuing
OPF Government Development	Various	Various : Various	0.000	4.460	Nov 2020	1.590	Nov 2021	3.711	Nov 2022	-		3.711	Continuing	Continuing	Continuing
Assembly and Installation	Various	Various : Various	0.000	0.000		6.226	Nov 2021	0.667	Nov 2022	-		0.667	Continuing	Continuing	Continuing
Prototype - Universal Mount	C/BA	NSWC : Panama City, FL	0.000	0.510	Nov 2021	0.170	Nov 2021	0.000		-		0.000	0.000	0.680	-
Prototype - C2	MIPR	SMDC : Huntsville, AL	0.000	0.990	Apr 2021	0.330	Nov 2021	0.000		-		0.000	0.000	1.320	-
Prototype - Universal Launcher	C/FFP	Mistral : Bethesda, MD	0.000	0.750	Apr 2021	0.250	Nov 2021	0.000		-		0.000	0.000	1.000	-
Prototype - Stalker (Hunter)	MIPR	DLA : Norfolk, VA	0.000	0.000		3.000	Nov 2021	0.000		-		0.000	0.000	3.000	-
Adaptive Behavior Dev	C/BA	Mistral : Bethesda, MD	0.000	2.372	Apr 2021	0.000		0.000		-		0.000	0.000	2.372	-
OPF Light Government Development	C/BA	AvMC : Redstone Arsenal, AL	0.000	0.000		0.000		5.840	Nov 2022	-		5.840	0.000	5.840	-
OPF Light Dismounted C2 Integration	C/BA	SMDC : Huntsville, AL	0.000	0.000		0.000		1.770	Nov 2022	-		1.770	0.000	1.770	-
<b>Subtotal</b>			15.440	20.940		16.973		15.458		-		15.458	Continuing	Continuing	N/A

**Remarks**  
 Net decrease of \$1.515M is due to the completed procurements of Prototype Universal mount, C2, Universal Launcher, and Stalker (Hunter); completion of the assembly and installation of the OPF launcher, universal mount, and C2 onto the LAV; initiation of OPF Light Government Development is to begin dismounted C2 integration and testing and to conduct analysis and develop material specifications.

PE 0604657M: MARINE CORPS GROUND COMBAT/SUPPORTING AR...  
 Navy

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

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<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
OPF Systems Spt	MIPR	SMDC : Huntsville, AL	1.957	0.000		0.000		0.000		-		0.000	1.957	3.914	-
OPF Engineering Support	Various	Various : Various	0.000	0.879	Nov 2020	1.914	Nov 2021	1.969	Nov 2022	-		1.969	Continuing	Continuing	Continuing
Training System Development	MIPR	SMDC : Huntsville, AL	0.000	0.000		1.862	Apr 2022	0.945	Nov 2022	-		0.945	Continuing	Continuing	Continuing
JLTV Platform Support	Various	Various : Various	0.000	0.000		0.883	Apr 2022	0.939	Jan 2023	-		0.939	Continuing	Continuing	Continuing
LAV Platform Support	Various	Various : Various	0.000	0.537	Nov 2020	1.445	Nov 2021	1.523	Nov 2022	-		1.523	Continuing	Continuing	Continuing
Swarming Analysis	MIPR	GTRI : Atlanta, GA	0.000	1.341	Dec 2020	0.000		0.000		-		0.000	0.000	1.341	-
<b>Subtotal</b>			1.957	2.757		6.104		5.376		-		5.376	Continuing	Continuing	N/A

**Remarks**  
Net decrease of \$0.728M is due to the reduction in Training System Development

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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 C2 and Dev Testing	Various	Various : Various	1.915	1.045	Nov 2020	0.906	Nov 2021	1.215	Nov 2022	-		1.215	Continuing	Continuing	Continuing
OPF Munitions Test Assets	C/FFP	Mistral : Bethesda, MD	0.000	0.000		12.760	Nov 2021	13.420	Nov 2022	-		13.420	Continuing	Continuing	Continuing
OPF Munitons Testing	Various	Various : Various	0.000	1.450	Jan 2021	2.214	Jan 2022	4.811	Jan 2023	-		4.811	Continuing	Continuing	Continuing
Early Operational Assessment (EOA)	WR	MCOTEA : Various	0.000	0.000		0.000	Nov 2021	1.230	Feb 2023	-		1.230	Continuing	Continuing	Continuing
OPF Light Testing	C/BA	Dugway PG : Dugway, UT	0.000	0.000		0.000		0.250	Mar 2023	-		0.250	0.000	0.250	-
<b>Subtotal</b>			1.915	2.495		15.880		20.926		-		20.926	Continuing	Continuing	N/A

**Remarks**  
Net increase of \$5.046M due to procurement of additional munition test assets and completion of EOA, and to coordinate range and conduct vendor demonstration for OPF Light. EOA shift to FY23 due to delay in munition component delivery and range availability funding was realigned to continue software development and testing.



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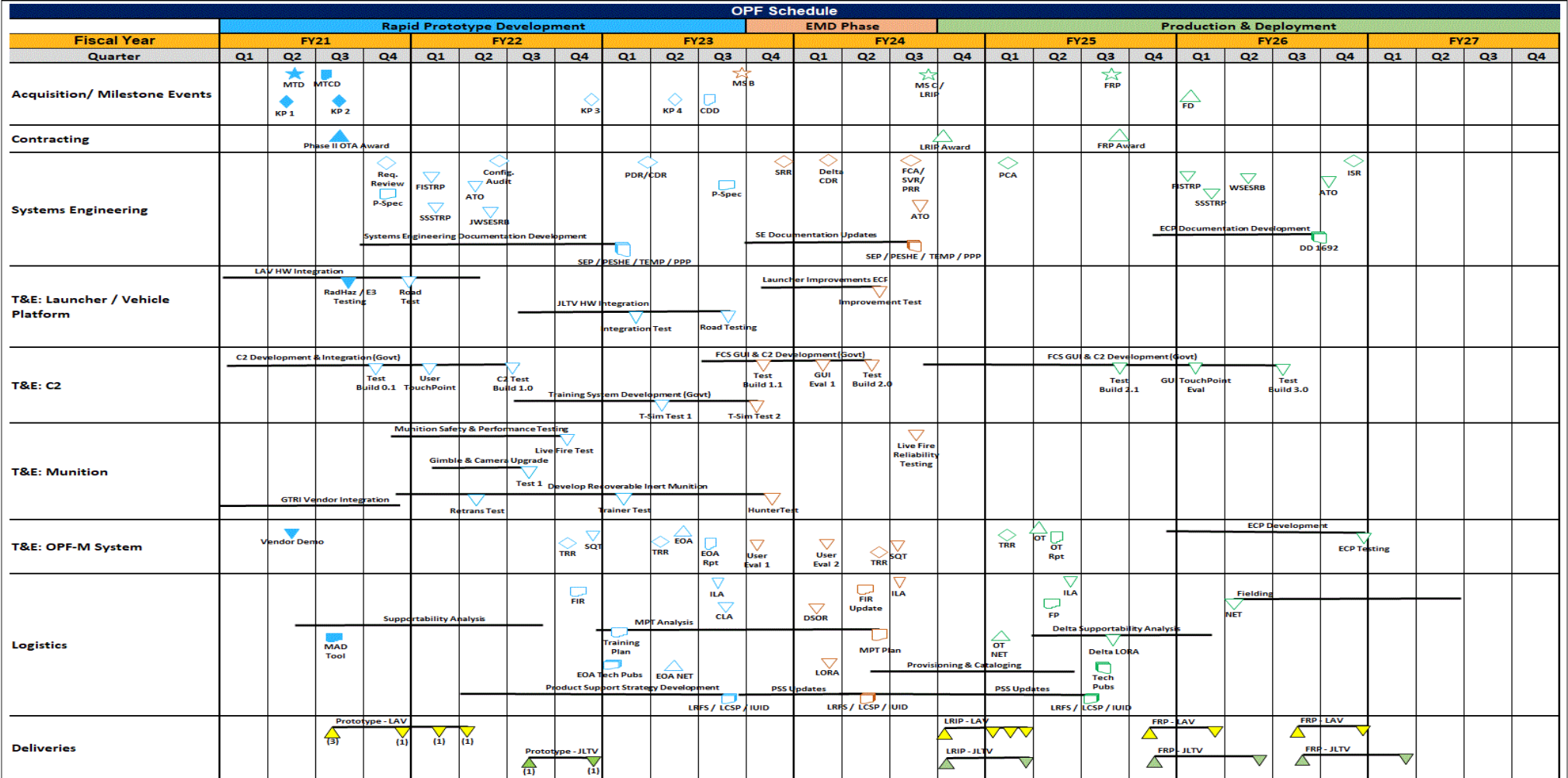
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity  
1319 / 5

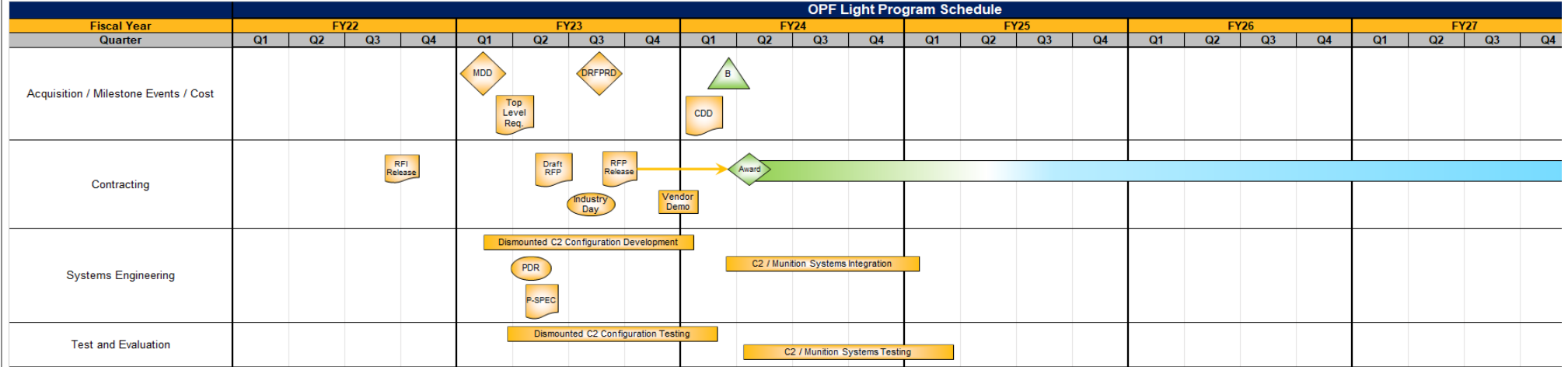
R-1 Program Element (Number/Name)  
PE 0604657M / MARINE CORPS GROUN  
D COMBAT/SUPPORTING ARMS SYST

Project (Number/Name)  
7400 / Combat Capability Development  
Transition



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Navy</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604657M / MARINE CORPS GROUN D COMBAT/SUPPORTING ARMS SYST	<b>Project (Number/Name)</b> 7400 / Combat Capability Development Transition



**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604657M / MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST	<b>Project (Number/Name)</b> 7400 / Combat Capability Development Transition

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 7400</b>				
OPF Prototype Award (LAV)	3	2021	3	2021
OPF Prototype Award (JLTV)	3	2022	3	2022
OPF Live Fire Testing - Munitions	4	2022	4	2022
OPF Early Operational Testing	2	2023	2	2023
OPF Milestone B	3	2023	3	2023
OPF Light C2 Integration	1	2024	1	2025
OPF Light Industry Day	3	2023	3	2023
OPF Light Vendor Demonstration	4	2023	1	2024