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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605611M / <i>MC AVS Development & Demonstration</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	255.970	71.237	91.501	103.236	-	103.236	60.456	45.290	3.569	2.990	Continuing	Continuing
0025: <i>Amphibious Combat Vehicle Family of Vehicles</i>	255.970	71.237	91.501	103.236	-	103.236	60.456	45.290	3.569	2.990	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): P472

Note

The program funding transitioned from Program Element 0603611M Marine Corps Assault Vehicles to Program Element 0605611M MC AVS Development and Demonstration as the program proceeds through the acquisition process.

In an Acquisition Decision Memorandum (ADM) dated 8 Jan 2019, ASN(RD&A) authorized the Program Executive Officer, Land Systems (PEOLS) to combine the Amphibious Combat Vehicle (ACV) 1.1 and ACV 1.2 programs into a single ACV Family of Vehicles (FOV) that continues the phased development and procurement approach. Accordingly, program resources for the merged program will be depicted in Project Unit 0025 for FY 2021 and beyond and program resources budgeted for ACV 1.2 in fiscal years FY 2019 through FY 2020 will continue to be shown in Project Unit 0026. In an ADM dated 12 Jul 2019, ASN(RD&A) authorized a third lot of LRIP consisting of 56 vehicles and directed that acquisition documentation reflecting this change should be updated as part of the Full Rate Production (FRP) Milestone Decision approval process.

A. Mission Description and Budget Item Justification

This is a CMC Force Design program. ACV provides protected mobility to otherwise dismounted infantry formations and enables littoral maneuver from ship-to-shore and from shore-to-shore. Equipped with modern communications systems and weapons for infantry support-by-fire, the ACV significantly improves the ability of Fleet Marine Forces to access, seize, and hold key maritime terrain in the execution of Expeditionary Advanced Base Operations. The Amphibious Combat Vehicle is imperative to realizing Marine Corps requirements for Fleet Marine Force 2030. The capability to project power from the sea ensures joint freedom of maneuver against increasingly sophisticated area denial and anti-access strategies across the range of military operations in areas vital to our national interest. To this end, an ACV creates operational and tactical options through rapid maneuver on sea and land, provides for the seamless transition of combat power from sea to land, enables rapid response to crisis, enables the introduction of joint follow-on forces and can impose disproportionate costs on our enemies who must extend their defenses. This program has delivered the initial capability of Personnel variants (ACV-Ps) in Nov 2020 and is on track to deliver the initial capability of Command variants (ACV-Cs) in 2Q FY 2024, Improved Lethality variants (ACV-30s) in 3Q FY 2026, and Recovery variants (ACV-Rs) in 1Q FY 2028.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	73.709	94.569	69.361	-	69.361
Current President's Budget	71.237	91.501	103.236	-	103.236
Total Adjustments	-2.472	-3.068	33.875	-	33.875
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.068			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.472	0.000			
• Program Adjustments	0.000	0.000	33.792	-	33.792
• Rate/Misc Adjustments	0.000	0.000	0.083	-	0.083

Change Summary Explanation

The project level increase from FY 2023 to FY 2024 of \$11.735M is primarily attributed to the increase of initiating ACV-R Phase II Design activities in FY 2024 while simultaneously completing ACV-30 Phase IV efforts. Year-to-year changes by cost element are explained in greater detail in the R-2A and R-3.

FY 2024 full funding supports the program ability to perform the following:

- Complete ACV-30 Phase IV design efforts plus DT&E, OT&E, and LFT&E for the ACV-30 variant so that production may begin in FY 2025 for ACV-30; complete FY 2024 funding request ensures there is not a production gap between FY 2024 and FY 2025 because ACV-30 is the only variant produced in FY 2025;
- Initiate and Complete the ACV-30 Contractor and Government Only Logistics Demonstrations;
- Initiate ACV-R Phase II design and development activities during PRTV build, including incremental funding for the order of three (3) ACV-R Production Representative Test Vehicles (PRTVs) which will be ordered in FY 2024 and initiate prime contractor test support efforts for test preparation and planning;
- Initiate test preparation and planning efforts for DT&E and LFT&E for ACV-R variant.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605611M / MC AVS Development & Demonstration				Project (Number/Name) 0025 / Amphibious Combat Vehicle Family of Vehicles			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0025: Amphibious Combat Vehicle Family of Vehicles	255.970	71.237	91.501	103.236	-	103.236	60.456	45.290	3.569	2.990	Continuing	Continuing
Quantity of RDT&E Articles		3	-	3	-	3	-	-	-	-		
Project MDAP/MAIS Code: P472												

A. Mission Description and Budget Item Justification

This is a CMC Force Design program. The Amphibious Combat Vehicle (ACV) replaces the legacy Assault Amphibious Vehicle (AAV) battalions within the Marine Divisions. ACV-equipped Amphibious Assault (AA) companies will provide protected mobility and general support lift to elements of Marine Infantry Battalions. The ACV, an advanced generation, eight-wheeled armored personnel carrier, will mitigate current and projected capability gaps by providing improved lethality against dismounted enemy troops, more effective land and water tactical mobility, and increased force protection and survivability from blast, fragmentation, and kinetic energy threats.

ACV was structured to be executed in multiple increments, with the first increment designed to provide an initial operational capability of personnel carriers (ACV-P). Subsequent increments were planned to provide additional personnel carriers and to develop Mission Role Variants (MRVs), such as command and control (ACV-C), improved lethality (ACV-30), and tactical recovery capabilities (ACV-R). In an Acquisition Decision Memorandum (ADM) dated 8 Jan 2019, ASN(RD&A) authorized the program office to combine the ACV 1.1 and ACV 1.2 programs into a single ACV Family of Vehicles (FOV) that continues the phased development and procurement approach.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Product Development	65.229	75.575	88.620	0.000	88.620
Articles:	3	-	3	-	3
Description: System Design and Development; Engineering and Manufacturing Development (EMD) test vehicle manufacturing; prime contractor Developmental and Operational test support, and development of Logistics Management Information (LMI) data.					
FY 2023 Plans:					
- Complete build of three (3) ACV-30 PRTVs.					
- Initiate ACV-30 prime contractor test support planning and preparation activities.					
- Complete ACV-R Phase I design and development activities.					
- Initiate the order of ACV-R long lead materials.					

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605611M / MC AVS Development & Demonstration	Project (Number/Name) 0025 / Amphibious Combat Vehicle Family of Vehicles

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>- Continue integration and system check-out activities for Assured Position Navigation and Timing (APNT) systems.</p> <p>FY 2024 Base Plans:</p> <ul style="list-style-type: none"> - Complete ACV-30 Phase IV design and development. - Continue ACV-30 prime contractor test support. - Initiate ACV-R Phase II design and development activities. - Initiate build of three (3) ACV-R PRTVs. - Initiate ACV-R prime contractor test support. <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The increase in System Design and Development from FY 2023 to FY 2024 is primarily attributed to the increase of initiating ACV-R Phase II Design activities in FY 2024 while simultaneously completing ACV-30 Phase IV efforts. The primary focus in FY 2024 for ACV-30 includes completing Phase IV design and development post Critical Design Review (CDR) and continuing prime contractor test support; for ACV-R, the primary focus is initiating Phase II design and development activities during PRTV build, including incremental funding for the order of three (3) ACV-R PRTVs which will be ordered in FY 2024 and initiating prime contractor test support efforts for test preparation and planning. FY 2024 is a critical funding year to support development and design efforts outlined above and required to stay on the production schedule. To avoid a production break between FY 2024 and FY 2025, full funding in FY 2024 supports the program's ability to complete ACV-30 Phase IV design and development activities which are on the critical path to achieving production in FY 2025 (ACV-30 is the only variant produced that year), and initiating ACV-R Phase II efforts which are on the critical path to achieving production in FY 2026 (both ACV-30 and ACV-R are produced that year).</p>					
<p>Title: Program Support</p> <p align="right">Articles:</p> <p>Description: Government labor, material, and travel for Integrated Logistics Support, Technical Publications, Support Equipment development, In-house Technical Support, and Program Management Support.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Continue Engineering Support for communication suite integration efforts - Continue Remote Weapons Station/Common Remotely Operated Weapons Station (CROWS) support. 	3.365	7.830	4.044	0.000	4.044
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<ul style="list-style-type: none"> - Continue Human Systems Integration (HSI) Support. - Continue ACV-30 government engineering and maintenance and technical support. - Continue Training Devices and Coordination analyses. - Continue Manpower and Personnel Training Support. - Initiate C2 Design Engineering and Integration for ACV-C Software Updates, ACV-C Software Production Kits, Cyber Security, and Licenses, and ACV-C Tech Refresh Hardware. These efforts will transition from RDT&E to PMC in FY 2024 when ACV-Cs begin fielding. <p>FY 2024 Base Plans:</p> <ul style="list-style-type: none"> - Continue Engineering Support for communication suite integration efforts - Continue Remote Weapons Station/Common Remotely Operated Weapons Station (CROWS) support. - Continue Human Systems Integration (HSI) Support. - Continue ACV-30 government engineering and maintenance and technical support. - Continue Training Devices and Coordination analyses. - Initiate activities for ACV-30 Logistics Demonstration. <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p> <ul style="list-style-type: none"> - The decrease in Program Support from FY 2023 to FY 2024 is primarily attributed to efforts transitioning from RDT&E to the Procurement appropriation, now that the ACV-C variant is in fielding, including the following: Command & Control (C2) engineering and integration efforts and software updates/hardware technology refresh efforts necessary to maintain the ACV Command-variant Authority to Operate (ATO). 					
<p>Title: Test & Evaluation</p> <p align="right">Articles:</p> <p>Description: Governmental Developmental Test & Evaluation (DT&E), Operational Test & Evaluation (OT&E), and Live Fire Test and Evaluation (LFT&E) activities.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Initiate ACV-30 DT&E test preparation and planning activities. - Initiate ACV-30 OT&E test preparation and planning activities. 	2.049	7.410	8.693	0.000	8.693
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>- Initiate ACV-30 LFT&E test preparation and planning activities.</p> <p>FY 2024 Base Plans:</p> <ul style="list-style-type: none"> - Continue ACV-30 DT&E activities. - Continue ACV-30 OT&E activities. - Continue ACV-30 LFT&E activities. - Initiate ACV-R DT&E test preparation and planning activities. - Initiate ACV-R OT&E test preparation and planning activities. - Initiate ACV-R LFT&E test preparation and planning activities. <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The increase in Test & Evaluation from FY 2023 to FY 2024 is primarily attributed to the completing a majority of ACV-30 DT&E/LFT&E in FY 2024, and starting the relatively lower levels of ACV-R test planning and preparation efforts in FY 2024.</p>					
<p>Title: Management Services</p> <p align="right">Articles:</p> <p>Description: Contract Advisory and Assistance Services (Engineering and Technical Support, Management Support Services, and Studies and Analyses) for all variants of ACV FOV.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Continue force protection modeling and simulation activities for ACV-30. - Initiate force protection modeling and simulation activities for ACV-R. - Initiate engineering and drafting reviews for ACV-R. - Continue hydrodynamic support. <p>FY 2024 Base Plans:</p> <ul style="list-style-type: none"> - Continue force protection modeling and simulation activities for ACV-30. - Continue force protection modeling and simulation activities for ACV-R. - Continue engineering and drafting reviews for ACV-R. - Continue hydrodynamic support. <p>FY 2024 OCO Plans:</p>	0.594	0.686	1.879	0.000	1.879
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> The increase in Management Services from FY 2023 to FY 2024 is primarily attributed to increased support required for ACV-R engineering and technical reviews leading up to the Engineering Change Proposal (ECP) approval for this variant in FY 2024.					
Accomplishments/Planned Programs Subtotals	71.237	91.501	103.236	0.000	103.236

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PMC/2025: Amphibious Combat Vehicle Family of Vehicles	520.697	536.678	557.544	-	557.544	856.155	844.269	91.877	60.812	Continuing	Continuing
• PMC/7000/ACV FoV: Spares and Repair Parts ACV FoV	25.534	20.127	20.657	-	20.657	21.102	21.476	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

The program office awarded two competitive Engineering and Manufacturing Development (EMD) contracts to two vendors to build 16 vehicles each (32 total). The program entered the acquisition cycle at Milestone B in FY 2016 and down-selected to one vendor at Milestone C in 3Q FY 2018; the program entered into Low Rate Initial Production (LRIP) at Milestone C with approval for two Lots of LRIP.

In an Acquisition Decision Memorandum (ADM) dated 8 Jan 2019, ASN(RD&A) authorized the program office to combine the ACV 1.1 and ACV 1.2 programs into a single ACV Family of Vehicles (FOV) that continues the phased development and procurement approach.

In an ADM dated 12 Jul 2019, ASN(RD&A) authorized a third lot of LRIP consisting of 56 vehicles and directed that acquisition documentation reflecting this change shall be updated as part of the Full Rate Production (FRP) Milestone Decision approval process. LRIP Lot 3 was broken into two lots (3A for 30 vehicles/3B for 26 vehicles) due to the Continuing Resolution. The production contract included competitively priced options for the development phase through FRP Lot 1.

Initial Operational Test and Evaluation (IOT&E) commenced 3Q FY 2020 and completed in 4Q FY 2020. The Full Rate Production (FRP) decision scheduled for 4Q FY 2020 slipped 2 months due to COVID-19 impacts and completed in 1Q FY 2021; FRP Lot 1 awarded on schedule in 1Q FY 2021. Similar to LRIP Lot 3, FRP Lot 1 was broken into two lots (1A for 36 vehicles/1B for 36 vehicles) due to the Continuing Resolution. Preliminary Design Review (PDR) for ACV-30 completed in May 2021.

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Beginning in FY 2022, the program is now beyond the competitively priced options for production which ended with FRP Lot 1 and had to negotiate additional priced options for FRP Lots 2-4 with the OEM. FRP Lot 2 was broken into three lots (2A for 33 ACV-P vehicles/2B for 36 ACV-P vehicles/2C for 14 ACV-C vehicles) due to the Continuing Resolution. Critical Design Review for ACV-30 completed 2Q FY 2022. Once design completes for ACV-R, additional options will be negotiated for production for FRP Lots 5-6. FRP Lot 3 was broken into three lots (3A for 30 ACV-P vehicles, 3B for 27 ACV-P vehicles, and 3C for 17 ACV-C vehicles) due to the Continuing Resolution.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
System Design & Development	C/FPIF	BAE Systems : Sterling Heights, MI/ York, PA	151.990	62.973	Jan 2022	73.912	Jan 2023	88.477	Jan 2024	-		88.477	Continuing	Continuing	Continuing
Other Product Development	C/FFP	NIWC : New Jersey/ Charleston/Picatinny	9.619	2.256	Jan 2022	1.663	Jan 2023	0.143	Jan 2024	-		0.143	Continuing	Continuing	Continuing
Subtotal			161.609	65.229		75.575		88.620		-		88.620	Continuing	Continuing	N/A

Remarks

-The increase in System Design and Development from FY 2023 to FY 2024 is primarily attributed to the increase of initiating ACV-R Phase II Design activities in FY 2024 while simultaneously completing ACV-30 Phase IV efforts. The primary focus in FY 2024 for ACV-30 includes completing Phase IV design and development post Critical Design Review (CDR) and continuing prime contractor test support; for ACV-R, the primary focus is initiating Phase II design and development activities during PRTV build, including incremental funding for the order of three (3) ACV-R PRTVs which will be ordered in FY 2024 and initiating prime contractor test support efforts for test preparation and planning. FY 2024 is a critical funding year to support development and design efforts outlined above and required to stay on schedule on the production side. To avoid a production break between FY 2024 and FY 2025, full funding in FY 2024 supports the program ability to complete ACV-30 Phase IV design and development activities which are on the critical path to achieving production in FY 2025 (ACV-30 is the only variant produced that year), and initiating ACV-R Phase II efforts which are on the critical path to achieving production in FY 2026 (both ACV-30 and ACV-R are produced that year).

- The decrease in Other Product Development from FY 2023 to FY 2024 is attributed to the completion of procurement of Government Furnished Equipment (GFE) for ACV-30 PRTVs in FY 2023. Funding in FY 2024 provides GFE test spares for ACV-R, which costs less by comparison.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Integrated Logistics Support	WR	Various : Various	1.517	0.000	Apr 2022	0.415	Apr 2023	0.000	Apr 2024	-		0.000	Continuing	Continuing	Continuing
Technical Data & Pubs Development	WR	NSWC CD : Carderock, MD	0.553	0.000	Apr 2022	0.066	Apr 2023	0.715	Apr 2024	-		0.715	Continuing	Continuing	Continuing
In-House Technical Support	WR	Various : Various	13.776	2.395	Apr 2022	5.505	Apr 2023	1.769	Apr 2024	-		1.769	Continuing	Continuing	Continuing
Training Devices/ Simulators	WR	NAWC : Orlando, FL	0.435	0.593	Apr 2022	1.844	Apr 2023	0.610	Apr 2024	-		0.610	Continuing	Continuing	Continuing
Travel	Various	Various : Various	2.149	0.096	Apr 2022	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Support Equipment	Various	Various : Various	0.000	0.281	Apr 2022	0.000		0.950	Apr 2024	-		0.950	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Subtotal			18.430	3.365		7.830		4.044		-		4.044	Continuing	Continuing	N/A

Remarks

- The decrease in Integrated Logistics Support from FY 2023 to FY 2024 is attributed to decreased scope for ACV Test Program Set development
- The increase in Pubs and Tech Data from FY 2023 to FY 2024 is primarily attributed to initiation of development activities for ACV-R Training Software & Course Content in FY 2024.
- The decrease in In-House Technical support from FY 2023 to FY 2024 is primarily attributed to efforts transitioning from RDT&E to the Procurement appropriation, now that the ACV-C variant is in fielding, including the following: Command & Control (C2) engineering and integration efforts and software updates/hardware technology refresh efforts necessary to maintain the ACV Command-variant Authority to Operate (ATO).
- The decrease in Training Devices and Simulators from FY 2023 to FY 2024 is primarily attributed to reduced scope for ongoing efforts.
- The increase in Support Equipment from FY 2023 to FY 2024 is attributed to initiation of design and development activities for ACV-R unique Support Equipment and tool sets.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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)	WR	Various : Various	0.000	0.385	Jan 2022	4.911	Jan 2023	4.587	Jan 2024	-		4.587	Continuing	Continuing	Continuing
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	WR	Various : Various	28.209	0.000		0.000		0.000		-		0.000	0.000	28.209	-
Operational Test & Evaluation (OT&E)	WR	MCOTEA : Quantico,VA	0.000	0.976	Jan 2022	0.508	Jan 2023	2.344	Jan 2024	-		2.344	Continuing	Continuing	Continuing
Prior Year Operational Test & Evaluation Not Funded FYDP (PYOT&E)	WR	MCOTEA : Quantico,VA	14.410	0.000		0.000		0.000		-		0.000	0.000	14.410	-
Live Fire Test & Evaluation (LFT&E)	WR	Various : Various	0.000	0.688	Jan 2022	1.991	Apr 2023	1.762	Apr 2024	-		1.762	Continuing	Continuing	Continuing
Prior Year Live Fire Test & Evaluation Not Funded FYDP (PYLFT&E)	WR	Various : Various	16.317	0.000		0.000		0.000		-		0.000	0.000	16.317	-
Subtotal			58.936	2.049		7.410		8.693		-		8.693	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605611M / MC AVS Development & Demonstration	Project (Number/Name) 0025 / Amphibious Combat Vehicle Family of Vehicles
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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

- The decrease in Developmental Test & Evaluation (DT&E) from FY 2023 to FY 2024 is primarily attributed to the completion of ACV-30 DT&E in FY 2024 and the relatively lower levels of ACV-R test planning and preparation efforts in FY 2024.
- The increase in Operational Test & Evaluation (OT&E) from FY 2023 to FY 2024 is primarily attributed to initiation of ACV-30 OT&E and the relatively lower levels of ACV-R test planning and preparation efforts in FY 2024.
- The decrease in Live Fire Test & Evaluation (LFT&E) from FY 2023 to FY 2024 is primarily attributed to the completion of ACV-30 LFT&E test efforts in FY 2024 and the relatively lower levels of ACV-R test planning and preparation efforts in FY 2024.

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Engineering & Technical Services	Various	Various : Various	6.765	0.339	Mar 2022	0.425	Mar 2023	1.612	Mar 2024	-		1.612	Continuing	Continuing	Continuing
Management Support Services	Various	Various : Various	10.230	0.255	Mar 2022	0.261	Mar 2023	0.267	Mar 2024	-		0.267	Continuing	Continuing	Continuing
Studies and Analyses	TBD	TBD : TBD	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			16.995	0.594		0.686		1.879		-		1.879	Continuing	Continuing	N/A

Remarks

- The increase in Engineering and Technical Services from FY 2023 to FY 2024 is primarily attributed to increased support required for ACV-R engineering and technical reviews leading up to the ECP approval for this variant in FY 2024.
- The increase in Management Support Services from FY 2023 to FY 2024 of is attributed to the normal rate of inflation.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		255.970	71.237	91.501	103.236	-	103.236	Continuing	Continuing	N/A

Remarks

FY 2024 is a vitally important year for design efforts that are critical to achieving production as scheduled in order to avoid a production break between the end of ACV-P production in FY 2024 and the beginning of ACV-30 production in FY 2025. Full funding in FY 2024 supports the program ability to complete ACV-30 Phase IV design and development activities which are on the critical path to achieving production in FY 2025 (ACV-30 is the only variant produced that year), and continuing ACV-R Phase II efforts which are on the critical path to achieving production in FY 2026 (both ACV-30 and ACV-R are produced that year).

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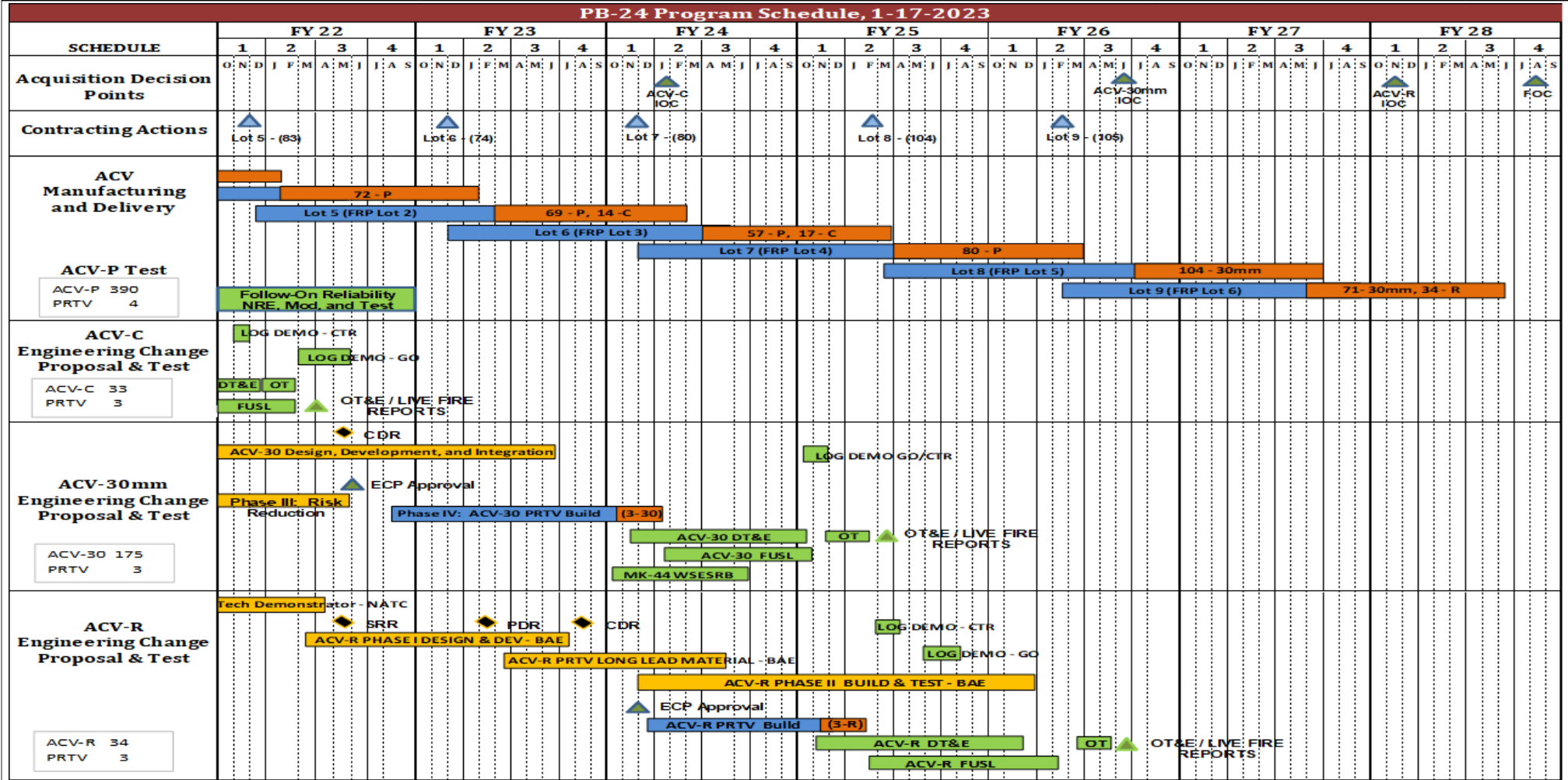
Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy

Date: March 2023

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0605611M / MC AVS Development & Demonstration

Project (Number/Name)
0025 / Amphibious Combat Vehicle Family of Vehicles



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605611M / MC AVS Development & Demonstration	Project (Number/Name) 0025 / Amphibious Combat Vehicle Family of Vehicles

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0025				
ACV-30 Phase IV: PRTV Build	4	2022	2	2024
FRP Lot 3 (overall Lot 6) Option Exercise	1	2023	1	2023
ACV-30 DT&E, OT&E and LFT&E	1	2024	2	2025
FRP Lot 4 (overall Lot 7) Option Exercise	1	2024	1	2024
ACV-30 Logistics Demo	1	2025	1	2025
ACV-R Phase I Design & Development	2	2022	4	2023
ACV-R Preliminary Design Review (PDR)	2	2023	2	2023
ACV-R Critical Design Review (CDR)	4	2023	4	2023
ACV-R Phase II PRTV Build & Test	1	2024	1	2026
ACV-R DT&E, OT&E, and LFT&E	1	2025	3	2026
ACV-R Contractor Logistics Demo	2	2025	3	2025
ACV-R Government Only Logistics Demo	3	2025	4	2025