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

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 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	214.711	41.259	73.709	94.569	-	94.569	69.361	60.116	45.066	45.563	Continuing	Continuing
0025: <i>Amphibious Combat Vehicle Family of Vehicles</i>	214.711	41.259	73.709	94.569	-	94.569	69.361	60.116	45.066	45.563	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 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 4Q FY 2023, Improved Lethality variants (ACV-30s) in 3Q FY 2026, and Recovery variants (ACV-Rs) in 4Q FY 2027.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	41.775	80.709	0.000	-	0.000
Current President's Budget	41.259	73.709	94.569	-	94.569
Total Adjustments	-0.516	-7.000	94.569	-	94.569
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-7.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.799	0.000			
• SBIR/STTR Transfer	-1.315	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	94.569	-	94.569

Change Summary Explanation

The project level increase from FY 2022 to FY 2023 (\$20.860M) is primarily attributed to the increase in Product Development (\$19.152M), a decrease in Program Support (\$3.699M), and an increase in Test & Evaluation (\$5.335M), and an increase in Management Services (\$0.072M). Year-to-year changes by cost element are explained in greater detail in the R-2A and R-3.

FY 2023 full funding supports the program ability to perform the following:

- Initiate and complete Hot/Dry climatic testing for the ACV-P variant;
- Initiate DT&E, OT&E test preparation and planning, and LFT&E for the ACV-30 variant;
- Complete incremental funding for the order of three (3) ACV-30 Production Readiness Test Vehicles (PRTVs) and initiate prime contractor test support efforts for test preparation and planning; Additionally, ACV-30 design efforts are on the critical path to production in FY 2025; Complete FY 2023 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;
- Continue ACV-R design and development activities, culminating in Critical Design Review (CDR) plus the order of three (3) PRTVs for ACV-R.

The FY 2023 funding request was adjusted by \$6.135M to account for the availability of prior year execution balances.

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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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
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 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
0025: Amphibious Combat Vehicle Family of Vehicles	214.711	41.259	73.709	94.569	-	94.569	69.361	60.116	45.066	45.563	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.

The project level increase from FY 2022 to FY 2023 (\$13.860M) is primarily attributed to the increase in Product Development (\$12.227M), a decrease in Program Support (\$3.713M), and an increase in Test & Evaluation (\$5.274M).

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Product Development	32.362	59.491	78.643	0.000	78.643
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 2022 Plans:					
- Complete prime contractor Test Support for ACV-C.					
- Complete ACV-R Technology Demonstrator effort.					

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>- Complete Common Remotely Operated Weapons Station II (CROWS-II) Multi-User Multi-Station (MUMS) software development Functional Qualification Testing (FQT).</p> <p>- Complete ACV-30 Phase III design and development.</p> <p>- Initiate ACV-30 Phase IV design and development.</p> <p>- Initiate the order of three (3) ACV-30 Production Representative Test Vehicles (PRTVs) plus related Government Furnished Equipment (GFE).</p> <p>- Initiate ACV-R Phase I design and development activity following the Technology Demonstrator effort.</p> <p>- Initiate integration and system check-out activities for Assured Position Navigation and Timing (APNT) system.</p> <p>FY 2023 Base Plans:</p> <p>- Complete ACV-30 Phase IV design and development.</p> <p>- Complete build of three (3) ACV-30 PRTVs.</p> <p>- Initiate ACV-30 prime contractor test support planning and preparation activities.</p> <p>- Continue ACV-R Phase I design and development activities.</p> <p>- Initiate the order of three (3) ACV-R PRTVs plus related GFE.</p> <p>- Initiate the order of ACV-R contractor furnished test spares.</p> <p>- Continue integration and system check-out activities for APNT systems.</p> <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <p>-The increase in Product Development from FY 2022 to FY 2023 (\$19.152M) is primarily attributed to the continuation of FY 2022 efforts into FY 2023 (continues ACV-30 Phase IV design/development, continues ACV-30 incremental funding for three PRTVs, continues ACV-R Phase I design/development), and initiates ACV-30 prime contractor test support, initiates incremental funding for the procurement of three ACV-R PRTVs in FY 2023, and ACV-R prime contractor test support for long-lead test spares. The ACV-30 PRTVs are being incrementally funded in FY 2022/2023/2024. The ACV-R PRTV's are similarly being incrementally funded starting in FY 2023.</p>					
<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>	5.692	2.075	7.410	0.000	7.410
	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Complete ACV-C Developmental Test and Evaluation (DT&E). - Initiate and complete ACV-C Operational Test and Evaluation (OT&E). - Complete ACV-C Live Fire Test and Evaluation (LFT&E); Full-Up System Level (FUSL) is a ballistics test which is conducted as part of LFT&E. - Complete follow-on Reliability Growth Testing (RGT) for ACV-P. <p>FY 2023 Base Plans:</p> <ul style="list-style-type: none"> - Initiate and complete ACV-P Hot/Dry Climatic Testing - Initiate ACV-30 DT&E activities. - Initiate ACV-30 OT&E test preparation and planning activities. - Initiate ACV-30 LFT&E activities. <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <ul style="list-style-type: none"> - The increase of \$5.335M in Test & Evaluation from FY 2022 to FY 2023 is primarily attributed to initiation of ACV-P Hot/Dry Climatic testing in FY 2023, the initiation of ACV-30 DT&E in FY 2023, and the initiation of ACV-30 LFT&E in FY 2023. 					
<p>Title: Program Support</p> <p align="right">Articles:</p>	2.334	11.529	7.830	0.000	7.830
<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 2022 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. - Initiate and complete several nonrecurring efforts, including: <ul style="list-style-type: none"> a.) nonrecurring technical analyses in support of Training Devices, Armor Characterization, Tire Coatings, and Engine Coolant and Exhaust management; 	-	-	-	-	-

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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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<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 2022 Plans:</p> <ul style="list-style-type: none"> - Complete force protection modeling and simulation activities for ACV-C. - Initiate force protection modeling and simulation activities for ACV-30. - Continue hydrodynamic support. - Continue Advanced Technology Cell support to reduce fleet maintenance costs through analysis of improved materials, testing, and repair procedures. <p>FY 2023 Base 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 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <ul style="list-style-type: none"> - The increase in Management Services from FY 2022 to FY 2023 (\$0.072M) is primarily attributed to an increase of Modeling and Simulation to support LFT&E for ACV-30 and a net increase in Hydrodynamic Support to support design/development for ACV-30 and ACV-R. 					
Accomplishments/Planned Programs Subtotals	41.259	73.709	94.569	0.000	94.569

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• PMC/2025: Amphibious Combat Vehicle Family of Vehicles	436.805	520.697	536.678	-	536.678	558.066	864.895	844.662	99.405	Continuing	Continuing
• PMC/7000/ACV FoV: Spares and Repair Parts ACV FoV	13.557	18.970	20.127	-	20.127	20.657	21.102	21.476	21.864	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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

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 3QFY20 and completed in 4QFY20. The Full Rate Production (FRP) decision scheduled for 4QFY20 slipped 2 months due to COVID-19 impacts and completed in 1QFY21; FRP Lot 1 awarded on schedule in 1QFY21. 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.

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 is scheduled to complete 2QFY22. Once design completes for ACV-30 and ACV-R, additional options will be negotiated for production for FRP Lots 5-6.

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

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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Product Development (\$ in Millions)				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			
System Design & Development	C/FPIF	BAE Systems : Sterling Heights, MI/ York, PA	120.818	31.172	Jan 2021	56.566	Jan 2022	76.980	Jan 2023	-		76.980	Continuing	Continuing	Continuing
Other Product Development	C/FFP	NIWC : New Jersey/ Charleston/Picatinny	8.429	1.190	Jan 2021	2.925	Jan 2022	1.663	Jan 2023	-		1.663	Continuing	Continuing	Continuing
Subtotal			129.247	32.362		59.491		78.643		-		78.643	Continuing	Continuing	N/A

Remarks

-The increase in System Design and Development from FY 2022 to FY 2023 (\$20.414M) is attributed to the continuation of FY 2022 efforts into FY 2023 (continues ACV-30 Phase IV design/development, continues ACV-30 incremental funding for three PRTVs, continues ACV-R Phase I design/development), and initiates ACV-30 prime contractor test support, initiates incremental funding for the procurement of three ACV-R PRTVs in FY 2023, and ACV-R prime contractor test support for long-lead test spares. The ACV-30 PRTVs are being incrementally funded in FY 2022/2023/2024. The ACV-R PRTV's are similarly being incrementally funded starting in FY 2023.

- The decrease in Other Product Development from FY 2022 to FY 2023 (\$1.262M) is primarily attributed to completion of ACV-30 GFE Communication Suites and GFE MK-44 30MM cannons for three ACV-30 PRTVs in FY 2022. Funding in FY 2023 provides for Weapon System Explosive Safety Review Board (WSESRB) preparation efforts, Assured Position Navigation and Timing system provisioning, GFE for ACV-R Communication Suites for three ACV-R PRTVs ordered in FY 2023, and GFE for ACV-30 Communication Suite test spares in FY 2023.

Support (\$ in Millions)				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			
Integrated Logistics Support	WR	Various : Various	1.392	0.125	Apr 2021	3.750	Apr 2022	0.415	Apr 2023	-		0.415	Continuing	Continuing	Continuing
Technical Data & Pubs Development	WR	NSWC CD : Carderock, MD	0.553	0.000	Apr 2021	0.065	Apr 2022	0.066	Apr 2023	-		0.066	Continuing	Continuing	Continuing
In-House Technical Support	WR	Various : Various	12.078	1.698	Apr 2021	5.802	Apr 2022	5.505	Apr 2023	-		5.505	Continuing	Continuing	Continuing
Training Devices/ Simulators	WR	NAWC : Orlando, FL	0.366	0.069	Apr 2021	1.909	Apr 2022	1.844	Apr 2023	-		1.844	0.000	4.188	-
Travel	Various	Various : Various	1.707	0.442	Sep 2021	0.003	Apr 2022	0.000		-		0.000	0.000	2.152	-
Subtotal			16.096	2.334		11.529		7.830		-		7.830	Continuing	Continuing	N/A

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

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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Support (\$ in Millions)				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			

Remarks

- The decrease in Integrated Logistics Support from FY 2022 to FY 2023 (\$3.335M) is primarily attributed to reduced scope for ACV-C Logistics Demonstration and Technical Publications verification and support which completed in FY 2022.
- The decrease in In-House Technical support from FY 2022 to FY 2023 (\$0.297M) is primarily attributed to nonrecurring efforts for Armor Characterization, Tire Coating, and Engine Coolant and Exhaust management analyses which completed in FY 2022.
- The decrease in Training Devices and Simulators from FY 2022 to FY 2023 (\$0.065M) is primarily attributed to slightly reduced scope for ongoing efforts such as the Submerged Vehicle Egress Trainer (SVET) design, Training Devices coordinating analyses, and Manpower and Training support.

Test and Evaluation (\$ in Millions)				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			
Development Test & Evaluation	WR	Various : Various	25.127	3.082	Jan 2021	0.384	Jan 2022	4.911	Jan 2023	-		4.911	Continuing	Continuing	Continuing
Operational Test & Evaluation	WR	MCOTEA : Quantico,VA	14.359	0.051	Jan 2021	0.976	Jan 2022	0.508	Jan 2023	-		0.508	Continuing	Continuing	Continuing
Live Fire Test & Evaluation	WR	Various : Various	13.758	2.559	Apr 2021	0.715	Jan 2022	1.991	Apr 2023	-		1.991	Continuing	Continuing	Continuing
Subtotal			53.244	5.692		2.075		7.410		-		7.410	Continuing	Continuing	N/A

Remarks

- The increase in Developmental Test & Evaluation from FY 2022 to FY 2023 (\$4.527M) is primarily attributed to initiation of ACV-P Hot/Dry Climatic testing in FY 2023 and the initiation of ACV-30 DT&E in FY 2023.
- The decrease in Operational Testing from FY 2022 to FY 2023 (\$0.468M) is due to the completion of ACV-C OT&E in FY 2022.
- The increase in Live Fire Test & Evaluation from FY 2022 to FY 2023 (\$1.276M) is attributed to initiation of ACV-30 LFT&E in FY 2023.

Management Services (\$ in Millions)				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			
Engineering & Technical Services	Various	Various : Various	6.144	0.621	Mar 2021	0.359	Mar 2022	0.425	Mar 2023	-		0.425	0.000	7.549	-

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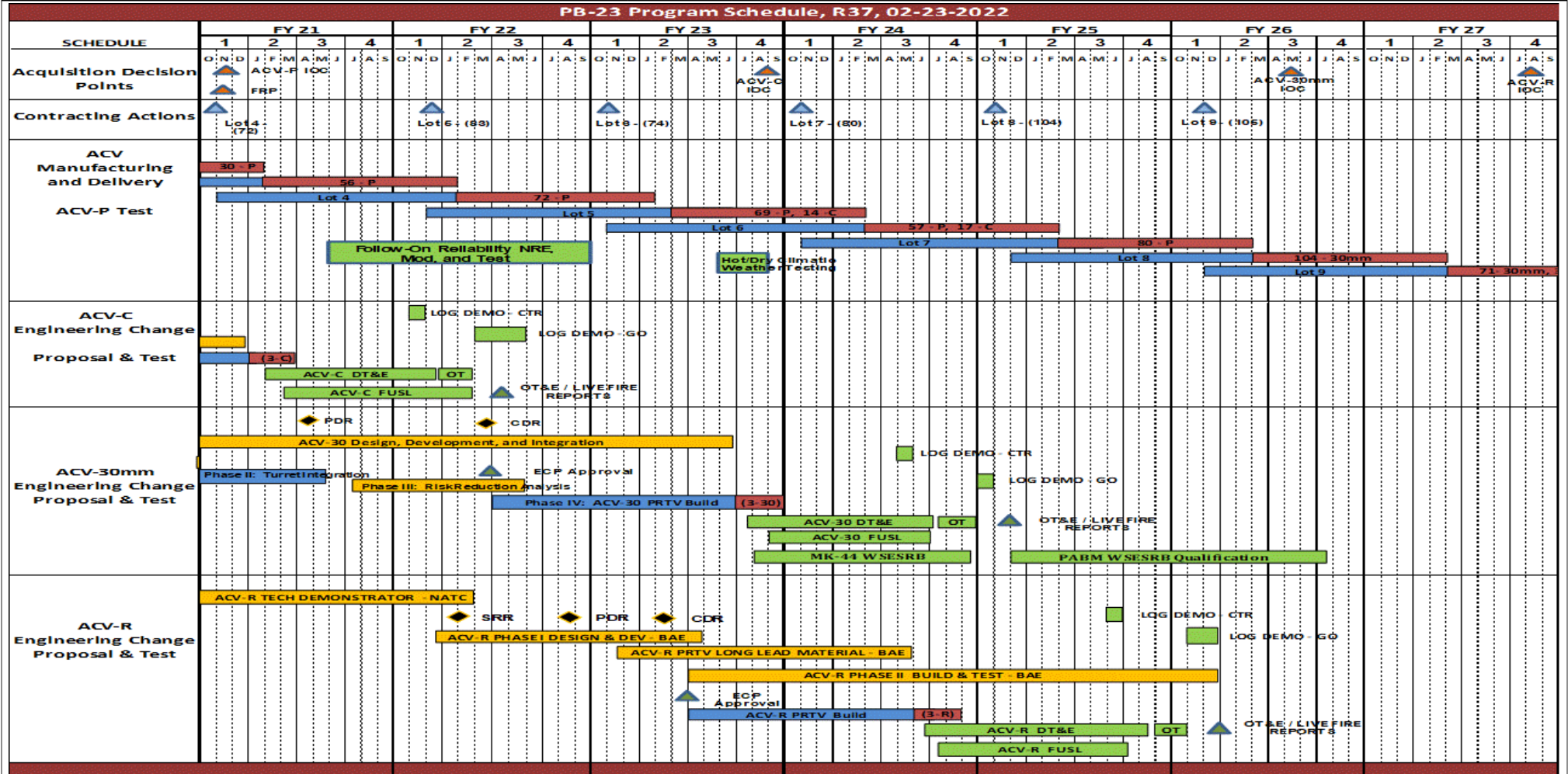
Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 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 2023 Navy		Date: April 2022
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				
Full Rate Production (FRP) Decision	1	2021	1	2021
ACV-P Initial Operational Capability (IOC)	1	2021	1	2021
FRP Lot 2 (overall Lot 4) Option Exercise	1	2021	1	2021
FRP Lot 2 (overall Lot 5) Option Exercise	1	2022	1	2022
Follow on Reliability Modernization, NRE and Test	3	2021	4	2022
Hot Weather Testing for ACV-P	3	2023	4	2023
ACV-C DT&E, OT&E and LFT&E	2	2021	2	2022
ACV-C Contractor Logistics Demo	1	2022	1	2022
ACV-C Government Only Logistics Demo	2	2022	3	2022
ACV-30 Design, Development, & Integration	1	2021	3	2023
ACV-30 Phase II: Turret Integration	1	2021	3	2021
ACV-30 Phase III: Risk Reduction Analysis	4	2021	3	2022
ACV-30 Phase IV: PRTV Build	3	2022	4	2023
ACV-30 DT&E, OT&E and LFT&E	4	2023	4	2024
ACV-30 Contractor Logistics Demo	3	2024	3	2024
ACV-30 Government Only Logistics Demo	1	2025	1	2025
ACV-R Tech Demonstrator	1	2021	2	2022
ACV-R Phase I Design & Development	1	2022	3	2023
ACV-R Critical Design Review (CDR)	2	2023	2	2023
ACV-R Phase II PRTV Build & Test	3	2023	1	2026
ACV-R DT&E, OT&E, and LFT&E	3	2024	1	2026

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy **Date:** April 2022

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ACV-R Contractor Logistics Demo	3	2025	3	2025
ACV-R Government Only Logistics Demo	1	2026	1	2026