Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army												Date: May 2021
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*							
COST ($ in Millions)	**Prior Years**	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**	**FY 2023**	**FY 2024**	**FY 2025**	**FY 2026**	**Cost To Complete**	**Total Cost**
Total Program Element	-	80.381	76.140	35.560	-	35.560	-	-	-	-	-	-
EB5: *Armored Multi-Purpose Vehicle*	-	80.381	76.140	35.560	-	35.560	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT). It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 FoV by transferring the current M113 mission equipment packages to a new Military Vehicle Derivative platform. In total, the AMPV FoV will account for approximately 30% of the ABCT's tracked fleet and consists of the following five variants:

1. Mission Command Vehicle (MCmd): This platform enables effective mission command planning and execution for both the Tactical Operations Center and Tactical Command Vehicle versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
2. Medical Treatment (MT) Vehicle: This platform will provide a protected surgical environment, with adequate lighting and accessible medical equipment. It will provide a capability for immediate medical care for one patient by a medical crew of four.
3. Medical Evacuation (ME) Vehicle: This platform will conduct ambulance type activities and provide casualty evacuation for up to four litters or six ambulatory patients, with a crew of three medical attendants.
4. General Purpose (GP) Vehicle: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.
5. Mortar Carrier (MC) Vehicle: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.

The AMPV program was initiated as an Acquisition Category (ACAT) ID program at Milestone B (MS B). The Defense Acquisition Executive signed the Acquisition Decision Memorandum (ADM) on 22 December 2014, authorizing entry into the Engineering and Development phase and approving contract award to BAE Systems Land & Armaments, L.P. The vehicle was developed to the Capability Development Document, which was approved 21 June 2013 and revised 24 October 2016. The DAE issued an ADM 26 September 2017 that approved revising the acquisition documentation tailoring plan, revising Milestone C entrance criteria, and increasing the Low Rate Initial Production (LRIP) quantity to 551 vehicles (to recognize the Army's desire for early fielding of AMPVs for the European Deterrence Initiative). AMPV was re-designated as an ACAT IC program on 1 November 2017, with the Army Acquisition Executive (AAE) and as the Milestone Decision Authority. The Army convened an Army Systems Acquisition Review Council (ASARC) for Milestone C on December 20, 2018, and the AAE signed the ADM on January 25, 2019. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

The Fiscal Year (FY) 2022 planned program primarily consists of continued efforts associated with Production Qualification Testing (PQT), Initial Operational Test & Evaluation (IOT&E), Live Fire Test and Evaluation (LFT&E) and corrective action implementation resulting from test results. Prime contractor support will be required for testing and engineering to ensure adequate system support packages will be available during the tests. Government test locations will be used for the tests and

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army	Date: May 2021
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605028A *I Armored Multi-Purpose Vehicle (AMPV)*

government personnel will be responsible for the overall management of the efforts. This program supports the Next Generation Combat Vehicle (NGCV) Cross Functional Team (CFT).

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	83.830	96.594	0.000	-	0.000
Current President's Budget	80.381	76.140	35.560	-	35.560
Total Adjustments	-3.449	-20.454	35.560	-	35.560
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-16.928			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-3.449	-3.526			
• Adjustments to Budget Years	-	-	35.560	-	35.560

Change Summary Explanation

Delayed vehicle delivery in FY21 resulted in a delay to start of test. All LRIP testing to support the Full Rate Production decision ends in FY22.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army											Date: May 2021	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*				Project (Number/Name) EB5 / *Armored Multi-Purpose Vehicle*			
COST ($ in Millions)	**Prior Years**	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**	**FY 2023**	**FY 2024**	**FY 2025**	**FY 2026**	**Cost To Complete**	**Total Cost**
EB5: *Armored Multi-Purpose Vehicle*	-	80.381	76.140	35.560	-	35.560	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT). It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 FoV by transferring the current M113 mission equipment packages to a new Military Vehicle Derivative platform. In total, the AMPV FoV will account for approximately 30% of the ABCT's tracked fleet and consists of the following five variants:

1. Mission Command Vehicle (MCmd): This platform enables effective mission command planning and execution for both the Tactical Operations Center and Tactical Command Vehicle versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
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The AMPV program was initiated as an Acquisition Category (ACAT) ID program at Milestone B (MS B). The Defense Acquisition Executive signed the Acquisition Decision Memorandum (ADM) on 22 December 2014, authorizing entry into the Engineering and Development phase and approving contract award to BAE Systems Land & Armaments, L.P. The vehicle was developed to the Capability Development Document, which was approved 21 June 2013 and revised 24 October 2016. The DAE issued an ADM 26 September 2017 that approved revising the acquisition documentation tailoring plan, revising Milestone C entrance criteria, and increasing the Low Rate Initial Production (LRIP) quantity to 551 vehicles (to recognize the Army's desire for early fielding of AMPVs for the European Deterrence Initiative). AMPV was re-designated as an ACAT IC program on 1 November 2017, with the Army Acquisition Executive (AAE) and as the Milestone Decision Authority. The Army convened an Army Systems Acquisition Review Council (ASARC) for Milestone C on December 20, 2018, and the AAE signed the ADM on January 25, 2019. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

The Fiscal Year (FY) 2022 planned program primarily consists of finalizing efforts associated with Production Qualification Testing (PQT), Initial Operational Test & Evaluation (IOT&E), Live Fire Test and Evaluation (LFT&E) and corrective action implementation resulting from test results. Prime contractor support will be required for testing and engineering to ensure adequate system support packages will be available during the tests. Government test locations will be used for the tests and

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*	**Project (Number/Name)** EB5 / *Armored Multi-Purpose Vehicle*

government personnel will be responsible for the overall management of the efforts. This program supports the Next Generation Combat Vehicle (NGCV) Cross Functional Team (CFT).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Armored Multi-Purpose Vehicle (AMPV) Product Development	53.734	41.589	18.950

Description: AMPV Product Development costs include all efforts provided under the AMPV Engineering and Manufacturing Development (EMD) prime contract along with Government Furnished Material (GFM). Significant examples of prime contract effort include: development engineering, system engineering/program management, prototype hardware procurement, prototype system level fabrication and integration, software development, support to the government test program, and oversight of subcontractors/suppliers. Also included are all efforts performed by subcontractors / suppliers who are under contract to the AMPV EMD prime contractor. This element also includes the recurring manufacturing cost to procure the vehicles that will support Full-Up System Level (FUSL) live fire testing.

FY 2021 Plans:
Prime contractor activities in FY2021 consist of efforts that support PQT, LFT&E, IOT&E planning and preparation, and potential design efforts to address changes stemming from said tests and/or to satisfy other emerging Army requirements. They also include contractor program management efforts necessary to oversee contractor personnel efforts. The contractor is de-processing vehicles as they arrive at the test sites, providing field service representatives, inspecting and repairing vehicles in support of testing, developing and providing training to test personnel, developing and providing training to Soldiers for IOT&E, providing test/engineering support and subject matter experts to support troubleshooting any issues that arise during test, and maintaining/replenishing parts in the System Support Packages at multiple USG test locations. The contractor will also analyze test results, as required, and incorporate any necessary design changes into LRIP vehicles along with updating the Technical Data Package. In addition to the described test and engineering activities, the contractor will continue work related to Logistics/ Product Support to ensure the AMPV can be organically maintained. The contractor is further responsible for maintaining the Product Support Package (PSP) which contains the integrated product support elements and any sustainment process contracts or agreements used to attain and sustain the maintenance and support concepts needed for materiel readiness. Will continue to evaluate, verify and validate additional AMPV capabilities required to counter evolving threats in multi-domain operations including, but not limited to, the AMPV key performance parameters and system attributes, Army's integrated tactical network, vehicle prognostics/predictive maintenance, producibility and cybersecurity/software.

FY 2022 Plans:
Prime contractor activities in FY2022 consist of ongoing efforts that support PQT, LFT&E, IOT&E and design efforts to address changes stemming from said tests and/or to satisfy other emerging Army requirements. As required, the contractor will continue to analyze the results of the testing program and incorporate any necessary design changes into LRIP vehicles. Based on all engineering design work, the contractor will also update and deliver a Technical Data Package (TDP) as well as continue work related to Logistics/Product Support to ensure the AMPV can be organically maintained. Will continue to evaluate, verify and

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*	**Project (Number/Name)** EB5 / *Armored Multi-Purpose Vehicle*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
validate additional AMPV capabilities required to counter evolving threats in multi-domain operations including, but not limited to, the AMPV key performance parameters and system attributes, Army's integrated tactical network, vehicle prognostics/predictive maintenance, producibility and cybersecurity/software. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Decrease is due to completion of LRIP testing and design fixes as the program transitions toward the Full-Rate Production decision.			
Title: AMPV Government Program Management Costs ***Description:*** AMPV Government Program Management costs include efforts to provide Government oversight of the AMPV program. This includes Systems Engineering and Program Management. Government and support Contractor salaries are included, as well as travel and other support costs that are required to effectively manage the program. Costs in this category do not include Government Furnished Material or efforts that are specific and unique to end item testing that is performed at Government test locations. ***FY 2021 Plans:*** Provide integrated program management for all development activities, to include providing oversight to BAE. The primary area of emphasis for the RDT&E funded Government Project Management team in FY2021 is to provide oversight to those LRIP activities that are traceable to PQT, LFT&E, and IOT&E planning and preparation. All other Government Program Management efforts in support of LRIP is covered by Procurement funding. As required, the AMPV Government Project Management team is supporting Army assessment and experimentation efforts relating to emerging Army requirements impacting the AMPV design. ***FY 2022 Plans:*** Provide continued integrated program management for all development activities, to include providing oversight to BAE. The primary area of emphasis for the RDT&E funded Government Project Management team in FY2022 is to provide oversight to those LRIP activities that are traceable to PQT, LFT&E, and IOT&E. All other Government Program Management efforts in support of LRIP will be covered by Procurement funding. As required, the AMPV Government Project Management team will support Army assessment and experimentation efforts relating to emerging Army requirements impacting the AMPV design. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Slight increase in cost for equivalent level of effort in FY 2021.	2.927	2.408	2.736
Title: Government Test Costs ***Description:*** Government Test costs are for efforts required to perform and validate system-related tests. This element includes costs of the detailed planning, conduct, support, data reduction, and reports from such testing. Also included are costs necessary	23.720	32.143	13.874

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022

to acquire data during the conduct of the Government tests. The actual test articles (i.e., functionally configured systems) are excluded from this element. Also excluded are prime contractor costs incurred in support of the Government system level test.

FY 2021 Plans:

Government Test costs in FY2021 reflect various testing activities to include test data evaluation, PQT efforts, LFT&E efforts and IOT&E planning and preparation efforts. Government costs include all costs incurred at the test sites and costs associated with Government personnel that will be collecting/analyzing test data, as well as personnel associated with providing oversight of the activities. PQT began 1QFY2021 and is planned to conclude in FY2022. PQT includes 28 vehicles, with six of those vehicles supporting RAM and 22 supporting performance testing. Tests will be performed at multiple USG test locations around the country and the world. The PQT objectives include verifying that the production-representative systems meet performance requirements, generating data to support the system evaluation in support of the FRP decision, and determining system readiness to enter IOT. LFT&E will begin in 2QFY2021 and also end in FY2022. LFT&E includes seven vehicles and will be conducted at Aberdeen Test Center. LFT&E will yield information to complement earlier vulnerability tests and modeling and analysis efforts. It will also be used to fill data voids from prior testing and will validate ballistic and blast performance at the system level to completely evaluate vehicle, crew, and occupant survivability. IOT&E will officially begin in FY2022, but will require planning and preparation activities in FY2021. IOT&E will use up to 30 AMPVs, with up to an additional six AMPVs located at the test location to serve as back-up vehicles. The IOT&E events will be conducted under realistic operational conditions using Army units executing decisive action operations. The test events are designed to produce data to satisfy the evaluation requirements in order to assess the operational effectiveness and suitability of the system under test.

FY 2022 Plans:

Government Test costs in FY2022 reflect ongoing LRIP testing activities, test data evaluation, and final reporting for PQT, LFT&E, and IOT&E. PQT began 1QFY2021 and is planned to conclude in FY2022. LFT&E is scheduled to begin 2QFY2021 and end in FY2022. IOT&E is scheduled to start during the first half of FY2022 and will be conducted under realistic operational conditions using Army units executing decisive action operations IAW U.S. Army doctrine against a representative OPFOR. The test events are designed to produce data to satisfy evaluation requirements in order to assess the operational effectiveness and suitability of the system undergoing test. The location of the IOT will be determined by the Army TSARC based on availability of units and maneuver area (at this time the location is assumed to be Fort Stewart, GA). PdM AMPV will support contractor Instructor and Key Personnel Training (I&KPT), OPNET, and FLMNET. PdM AMPV will also provide a New Material Introductory Briefing (NMIB) to the IOT unit prior to OPNET, and finalize with the unit the target audience for New Equipment Training. PdM AMPV will further plan and coordinate any follow-on developmental and/or operational testing required due to configuration changes during production, or verification that any post-production deficiencies in materiel, training, or concepts have been satisfactorily corrected.

FY 2021 to FY 2022 Increase/Decrease Statement:

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Decrease from FY 2021 to FY 2022 is due to the decreased volume of LRIP testing planned for FY 2022 versus FY 2021.			
Accomplishments/Planned Programs Subtotals	80.381	76.140	35.560

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• G80819: *Armored Multi Purpose Vehicle (AMPV)*	444.797	63.000	104.727	-	104.727	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

The AMPV program was initiated at Milestone B (MS B). The 22 December 2014 MS B Acquisition Decision Memorandum (ADM) approved contract award for the Engineering and Manufacturing Development phase plus three Low Rate Initial Production (LRIP) options to BAE Systems Land & Armaments, L.P. on a competitive basis. The Army Acquisition Executive (AAE) approved the Milestone C ADM on January 25, 2019, authorizing Low Rate Initial Production. All three LRIP options have since been exercised. As a result of vehicle delivery delays, the AAE approved a revised Acquisition Program Baseline to adjust the program schedule on January 7, 2021.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army			Date: May 2021
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Development Engineering	C/CPIF	BAE : Sterling Heights, MI	218.632	23.213	Dec 2019	3.277	Dec 2020	3.378	Dec 2021	-		3.378	0.000	248.500	-
Prototype Material Contractor	C/CPIF	BAE : Sterling Heights, MI	119.298	-		-		-		-		-	0.000	119.298	-
Prototype Material Government Furnished	Various	Various : .	27.673	-		-		-		-		-	0.000	27.673	-
Contractor System Engineering, Data, Test and Program Management	C/CPIF	BAE : Sterling Heights, MI	134.136	23.968	Dec 2019	17.427	Dec 2020	7.551	Dec 2021	-		7.551	0.000	183.082	-
Procurment of Live Fire Test Assets	Option/ FPIF	BAE : York, PA	50.108	0.542		-		-		-		-	0.000	50.650	-
Contractor Support to Qualification, Live Fire, & Operational Testing	C/CPIF	BAE : Sterling Heights, MI	43.197	6.011	Dec 2019	20.885	Dec 2020	8.021	Dec 2021	-		8.021	0.000	78.114	-
		Subtotal	593.044	53.734		41.589		18.950		-		18.950	0.000	707.317	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	MIPR	PMO : Warren, MI	115.044	2.927	Dec 2019	2.408	Dec 2020	2.736	Dec 2021	-		2.736	0.000	123.115	-
FY 2018 NDAA SEC 825 MDAP Cost Overrun	Allot	OASA(FM&C) : Washington, D.C.	0.170	-		-		-		-		-	0.000	0.170	-
		Subtotal	115.214	2.927		2.408		2.736		-		2.736	0.000	123.285	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government System Testing	MIPR	Various : .	89.732	23.720	Dec 2019	32.143	Dec 2020	13.874	Dec 2021	-		13.874	0.000	159.469	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army			Date: May 2021
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	89.732	23.720		32.143		13.874		-		13.874	0.000	159.469	N/A

Remarks

Testing locations are as follows. Aberdeen Test Center (ATC) = Maryland, Yuma Test Center (YTC) = Arizona, White Sands Missile Range (WSMR) = New Mexico, Electronic Proving Ground (EPG) = Arizona, Cold Regions Test Center (CRTC) = Alaska, Tropic Regions Test Center (TRTC) = Suriname, South America, Dugway Proving Grounds (DPG) = Utah

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	797.990	80.381		76.140		35.560		-		35.560	0.000	990.071	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*	**Project (Number/Name)** EB5 / *Armored Multi-Purpose Vehicle*

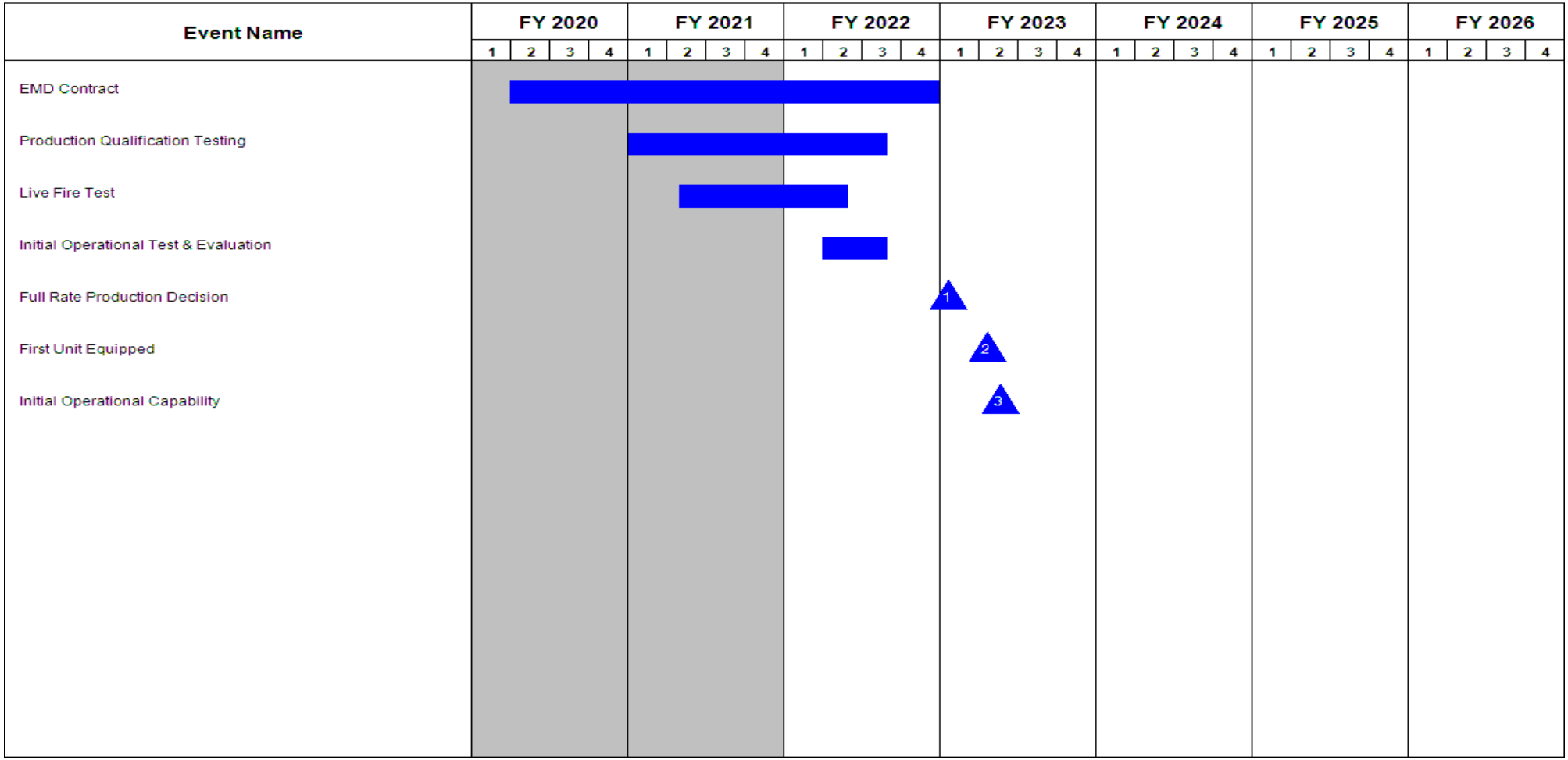

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*	**Project (Number/Name)** EB5 / *Armored Multi-Purpose Vehicle*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Milestone B Decision	1	2015	1	2015
EMD Contract	1	2015	4	2022
Preliminary Design Review	3	2015	3	2015
Critical Design Review	3	2016	3	2016
Production Prove Out Test	4	2017	4	2018
Limited User Test	4	2018	1	2019
Milestone C	2	2019	2	2019
Low Rate Initial Production 1	2	2019	2	2019
Production Qualification Testing	1	2021	3	2022
Live Fire Test	2	2021	2	2022
Initial Operational Test & Evaluation	2	2022	3	2022
Full Rate Production Decision	1	2023	1	2023
First Unit Equipped	2	2023	2	2023
Initial Operational Capability	2	2023	2	2023