Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army											Date: February 2016	
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 2015**	**FY 2016**	**FY 2017 Base**	**FY 2017 OCO**	**FY 2017 Total**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**Cost To Complete**	**Total Cost**
Total Program Element	-	88.797	226.210	184.221	-	184.221	200.809	124.314	95.925	95.226	0.000	1,015.502
EB5: *Armored Multi-Purpose Vehicle*	-	88.797	226.210	184.221	-	184.221	200.809	124.314	95.925	95.226	0.000	1,015.502

Note

The previous program element was 0203735A, Project DS5, Combat Vehicle Improvement Program. FY2014 President's Budget established the new program element, 0605028A, Project EB5, Armored Multi-Purpose Vehicle (AMPV).

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 (MEP) to a new Military Vehicle Derivative (MVD) 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 (MCmd) Vehicle: This platform enables effective mission command planning and execution for both the Tactical Operations Center (TOC) and Tactical Command Vehicle (TAC) 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 litter 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 has been initiated on the basis of a Capability Development Document (CDD) that was approved on 21 June 2013. The CDD reflects a set of stable, technologically achievable requirements. A Milestone B (MS B) Defense Acquisition Board (DAB) was held on 9 December 2014 and it was followed by an Acquisition Decision Memorandum (ADM) that was signed on 22 December 2014. The ADM approved MS B for the AMPV program and entry into the Engineering and Manufacturing Development (EMD) phase. In addition, the ADM authorized the Army to proceed with award of the EMD prime contract, which occurred on 23 December 2014 to BAE Systems Land & Armaments, L.P. (BAE). The FY2015 Accomplishments described below largely reflect the lead-up to the Preliminary Design Review (PDR) and initiation of detailed design activities. Included are efforts that are related to the preparation and review of all PDR artifacts, as well as efforts related to PDR close-out. The FY2016 Planned Program is primarily related to efforts that support the Critical Design Review (CDR) and, following CDR, the procurement of prototype

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army	Date: February 2016
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)*

hardware. The FY2017 Planned Program is related to the integration, assembly, and delivery of 29 full system prototypes and the initiation of the AMPV development test program.

B. Program Change Summary ($ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	92.309	230.210	185.505	-	185.505
Current President's Budget	88.797	226.210	184.221	-	184.221
Total Adjustments	-3.512	-4.000	-1.284	-	-1.284
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-4.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-3.512	-			
• Adjustments to Budget Years	-	-	-1.284	-	-1.284

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army			Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EB5: *Armored Multi-Purpose Vehicle*	-	88.797	226.210	184.221	-	184.221	200.809	124.314	95.925	95.226	0.000	1,015.502
Quantity of RDT&E Articles	-	-	-	29	-	29	-	-	-	-		

Note

The previous program element was 0203735A, Project DS5, Combat Vehicle Improvement Program. FY2014 President's Budget established the new program element, 0605028A, Project EB5, Armored Multi-Purpose Vehicle (AMPV).

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 (MEP) to a new Military Vehicle Derivative (MVD) 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 (MCmd) Vehicle: This platform enables effective mission command planning and execution for both the Tactical Operations Center (TOC) and Tactical Command Vehicle (TAC) versions of the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
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*

hardware. The FY2017 Planned Program is related to the integration, assembly, and delivery of 29 full system prototypes and the initiation of the AMPV development test program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2015	FY 2016	FY 2017
Title: Armored Multi-Purpose Vehicle (AMPV) Product Development	64.439	195.377	134.033

Description: AMPV Product Development costs include all efforts provided under the AMPV 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.

FY 2015 Accomplishments:
Following award of the AMPV EMD contract in 1QFY2015, the prime contractor initiated and completed detailed planning efforts that culminated in a Performance Measurement Baseline (PMB) and related Integrated Master Schedule (IMS). These were validated through a government led Integrated Baseline Review (IBR) 4QFY2015. The prime contractor supported the IBR. The prime contractor awarded key subsystem and component level provider contracts early 2QFY2015. A formal start-of-work meeting took place 2QFY2015 and work commenced on the vehicle design. A Preliminary Design Review (PDR) occurred 15-18 June 2015. Approximately 30 artifacts were generated and delivered in support of PDR. Following successful completion of the PDR, the prime contractor commenced detailed design activities and began to order low risk hardware that have long lead times. The prime contractor operated in an Integrated Product Team (IPT) environment and used tools such as Earned Value Management and Technical Performance Measures to evaluate and report cost, schedule, and technical status.

FY 2016 Plans:
The prime contractor will continue to operate in an Integrated Product Team (IPT) environment consisting of eight unique teams. The prime contractor will support team meetings and reviews and will report program progress through the use of Earned Value Management (EVM) and Technical Performance Measures (TPMs). Based on successful completion of the PDR, activities have transitioned to detailed design of components and subsystems in FY2016. These detailed design efforts will be focused on integration of existing components into the AMPV chassis, which will be tailored to the five mission roles. Final prototype designs and related drawings will be completed early in FY2016. In addition, as nearly all of the subsystems that will be integrated into the prototype structures will be existing designs, most of the hardware at a component level is expected to be ordered in 2QFY2016. Integration of these components into subsystems will commence 3QFY2016 and will be mostly complete by 4QFY2016. Prototype final integration, assembly, and checkout will be initiated to allow full vehicle prototypes to begin to be delivered late 1QFY2017. In addition to prototype development and fabrication, the engineering work will be focused on the Critical Design Review (CDR), which will occur in 3QFY2016. All artifacts that support CDR will be developed and delivered to the government 60 days prior to the review. Approximately 50 artifacts are expected to be delivered in support of CDR. Government Furnished Material for the system prototypes, mainly consisting of Mission Equipment Packages and communication hardware, will be procured by

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
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 2015	FY 2016	FY 2017
2QFY2016. Final builds for armor coupons and ballistic hull test articles will be completed to support live fire/survivability testing in FY17. ***FY 2017 Plans:*** Prototype efforts in FY2017 will consist of the integration, assembly, checkout, and shipment of 29 full system prototype vehicles. The prime contractor will support the de-processing, functional testing, instrumentation, training, fielding and maintenance of the prototypes at government test sites. In addition, for each of the first 5 prototype vehicles, the prime contractor will conduct 1,500 miles of shakedown testing prior to beginning government run system level tests. Also related to the prototype vehicles, the prime contractor will deliver and manage System Support Packages (SSPs) that consist of the necessary spare parts required to facilitate government testing. From an engineering perspective, the prime contractor will make informed design changes to respond to hardware and software upgrades and CDD updates, as well as utilize knowledge gained from system level testing to update vehicle designs, as required. Any updates will be presented in an Interim Design Review (IDR), currently planned for early 2QFY2018. In addition, the Vehicle Tactical Integration Lab (VTIL) and the Computer Software Integration Lab (CSIL) will continue to be used to trouble-shoot any emerging issues and, if necessary, verify design updates. During FY2017, the final three software builds will be delivered. These builds are primarily expected to be clean-up builds that will resolve any problems uncovered during system level testing. The prime contractor will perform significant work related to Logistics/Product Support in FY2017. This will include an update to the Level of Repair Analysis (LORA), provisioning of repair parts, development of packaging information, training at test sites, and the validation of technical manual tasks in preparation for the Logistics Demonstration starting in 2QFY2018. Logistics related documentation to be completed by BAE in FY2017 includes the Logistics Demonstration Plan, System Demilitarization and Disposal Plan, Preservation and Storage of Unique Tooling, Core Logistics Assessment, Core Depot Assessment, Depot Source of Repair, and Analysis of Product Support Alternatives.			
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 2015 Accomplishments:*** Following award of the AMPV EMD prime contract, the AMPV Project Management Office (PMO) initiated oversight to the EMD contractor. Integrated Product Teams (IPTs) began oversight of the development efforts of the EMD contractor in order to monitor and track technical progress. This included review and acceptance of all formal contract deliverables. Of note were the conduct of the Systems Requirements Review and the review of approximately 30 deliverables in support of the Preliminary Design Review	24.358	23.847	25.414

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
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 2015	FY 2016	FY 2017
(PDR) which occurred 3QFY2015. In addition, the Government management team led the Integrated Baseline Review (IBR), conducted 4QFY2015. ***FY 2016 Plans:*** Provide integrated program management for all development activities, to include providing oversight to the Engineering Manufacturing and Development (EMD) contractor. Eight AMPV Integrated Product Teams (Program Management; Business Management; Engineering; Product Assurance and Test; Reliability, Availability, Maintainability (RAM) Product Support; Product Support Management; Manpower and Personnel Integration; and Government Furnished Material) will continue to oversee the technical development efforts of the EMD contractor in order to monitor and track technical progress related to the development of the various subsystems. This includes review and acceptance of all formal contract deliverables. The AMPV Earned Value Management (EVM) team will continue to evaluate cost and schedule performance against the established Performance Measurement Baseline (PMB) and Integrated Master Schedule (IMS). An emphasis for the Government team in FY2016 will be on supporting the contractor's Critical Design Review (CDR), currently planned for 3QFY2016. ***FY 2017 Plans:*** Provide integrated program management for all development activities, to include providing oversight to BAE. Eight Integrated Product Teams will continue to oversee the technical development efforts of BAE in order to monitor and track technical progress related to the development of the various subsystems. This includes review and acceptance of all formal contract deliverables. The AMPV Earned Value Management (EVM) team will continue to evaluate cost and schedule performance against the established Performance Measurement Baseline (PMB) and Integrated Master Schedule (IMS). Areas of emphasis for the Government team in FY2017 include inspection and acceptance of 29 full system vehicle prototypes, management and oversight of the system level testing program, and preparation for the Logistics Demonstration in early FY2018. Significantly, Government efforts in FY2017 will begin to transition from being engineering focused to being focused on testing and product support.			
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 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 2016 Plans:*** Acquire Government Furnished Material (GFM) and construct/integrate three base stations for use at Government test sites. Base stations consist of radios, displays, input devices and other related hardware necessary to monitor tests and to collect data.	-	6.986	24.774

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2015	FY 2016	FY 2017
GFM must be on-hand by 3QFY2016 and base stations must be available at test sites by 4QFY2016 so that tests can commence January, 2017. ***FY 2017 Plans:*** System level detailed planning will conclude with the Developmental Test Readiness Review (DTRR) in 3QFY2017. Other system level test milestones include the Blue Team Vulnerability Assessment in 3QFY2017 and the Reliability, Availability, and Maintainability (RAM) In-Process Review (IPR) in 4QFY2017. System level Live Fire Test & Evaluation will begin with Ballistic Hull testing that will be conducted 1Q-2QFY2017. EMD Prototypes will be delivered to Army proving grounds and Government Developmental Testing will begin 3QFY2017. Government full system prototype vehicle testing will commence with mortar carrier ballistic firing tests. In addition to the prototype vehicles utilized for Technical Manual validation, another 12 prototype vehicles will begin system level testing in FY2017. Besides mortar carrier ballistic similitude tests, initial system level testing will focus on system reliability and automotive performance. The Government will begin requirements verification efforts with emerging prototype test data and failure review boards will be initiated, as needed. Test ammunition and test threat management, forecasting, and procurement will continue for future test efforts.			
Accomplishments/Planned Programs Subtotals	88.797	226.210	184.221

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• Armored Multi Purpose Vehicle(AMPV): *Armored Multi Purpose Vehicle(AMPV) G80819*	-	-	-	-	-	193.715	397.355	495.713	691.216	11,079.085	12,857.084

Remarks

D. Acquisition Strategy

The Armored Multi-Purpose Vehicle (AMPV) program entered the acquisition process at Milestone B. This was accomplished via an Acquisition Decision Memorandum (ADM) that was signed on 22 December 2014. The ADM also authorized the Army to proceed with award of the Engineering and Manufacturing Development (EMD) prime contract with three Low Rate Initial Production (LRIP) options. The contract was awarded on 23 December 2014 to BAE Systems Land & Armaments, L.P. (BAE). The award was on a competitive basis utilizing formal Source Selection Evaluation Board (SSEB).

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army			Date: February 2016
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*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Development Engineering	C/CPIF	BAE : Sterling Heights, MI	0.000	64.439	Dec 2014	45.886	Dec 2015	48.283	Dec 2016	-		48.283	35.890	194.498	0
Prototype Material Contractor	C/CPIF	BAE : Sterling Heights, MI	0.000	-		78.998	Dec 2015	18.444	Dec 2016	-		18.444	27.839	125.281	0
Prototype Material Government Furnished	Various	Various : .	0.000	-		21.192	Dec 2015	-		-		-	3.620	24.812	0
Contractor System Engineering, Data, Test and Program Management	C/CPIF	BAE : Sterling Heights, MI	0.000	-		49.301	Dec 2015	67.306	Dec 2016	-		67.306	248.075	364.682	0
		Subtotal	0.000	64.439		195.377		134.033		-		134.033	315.424	709.273	0.000

Remarks

Armored Multi Purpose Vehicle Tech data and system level product development costs.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	MIPR	PMO : Warren, MI	27.345	24.358	Dec 2014	23.847	Dec 2015	25.414	Dec 2016	-		25.414	57.997	158.961	0
		Subtotal	27.345	24.358		23.847		25.414		-		25.414	57.997	158.961	0.000

Remarks

Armored Multi Purpose Vehicle Support Costs.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2015 Cost	FY 2015 Award Date	FY 2016 Cost	FY 2016 Award Date	FY 2017 Base Cost	FY 2017 Base Award Date	FY 2017 OCO Cost	FY 2017 OCO Award Date	FY 2017 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government System Testing	MIPR	Various : .	0.000	-		6.986	Dec 2015	24.774	Dec 2016	-		24.774	142.853	174.613	0
		Subtotal	0.000	-		6.986		24.774		-		24.774	142.853	174.613	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army			Date: February 2016
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	Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	27.345	88.797		226.210		184.221		-		184.221	516.274	1,042.847	0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army		Date: February 2016
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*

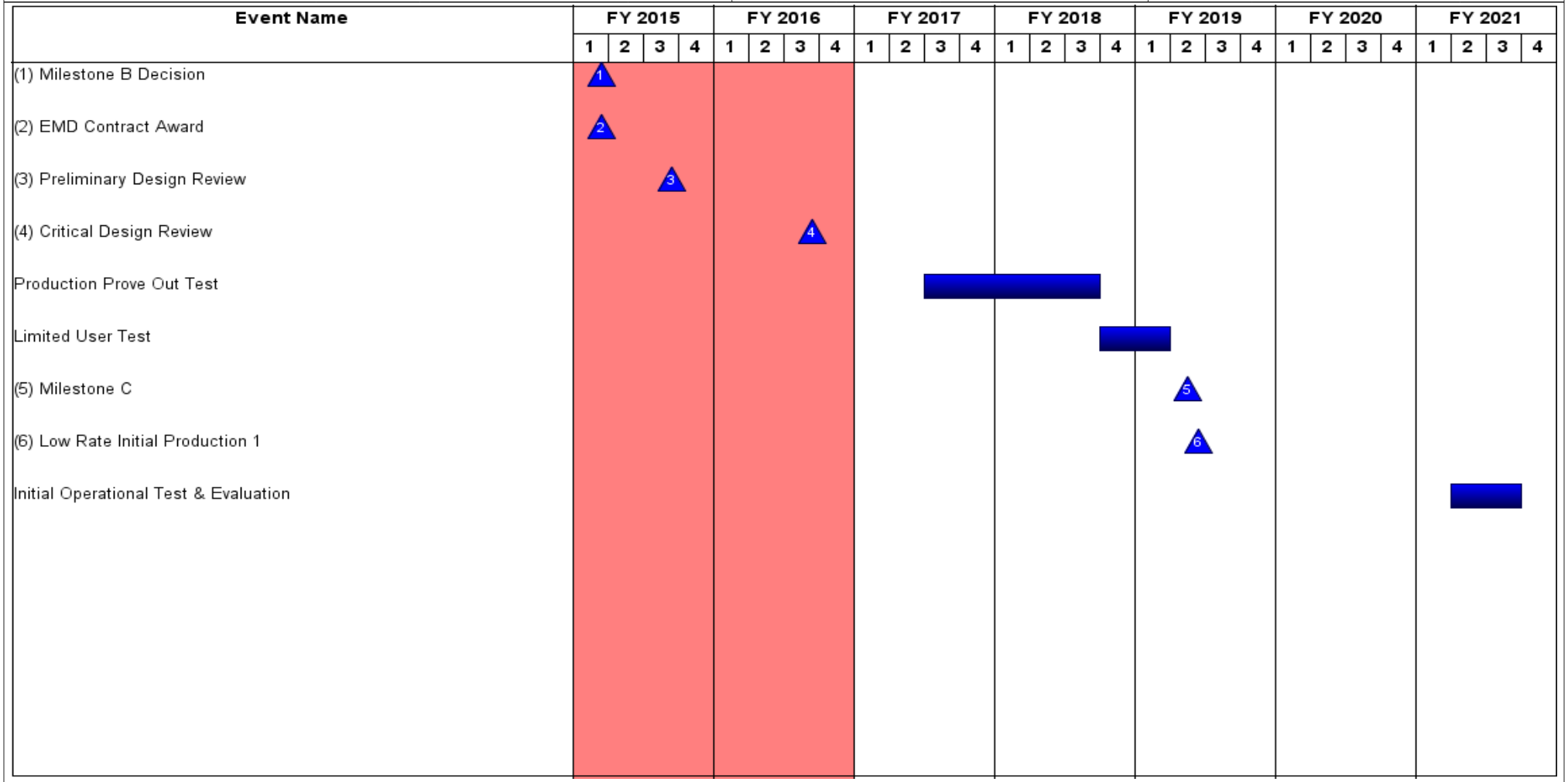

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605028A / *Armored Multi-Purpose Vehicle (AMPV)*	**Project (Number/Name)** EB5 / *Armored Multi-Purpose Vehicle*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Milestone B Decision	1	2015	1	2015
EMD Contract Award	1	2015	1	2015
Preliminary Design Review	3	2015	3	2015
Critical Design Review	3	2016	3	2016
Production Prove Out Test	3	2017	3	2018
Limited User Test	4	2018	1	2019
Milestone C	2	2019	2	2019
Low Rate Initial Production 1	2	2019	2	2019
Initial Operational Test & Evaluation	2	2021	3	2021

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