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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					PE 0203735A: Combat Vehicle Improvement Programs							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	35.046	253.959	177.532	-	177.532	219.937	169.927	130.581	34.115	Continuing	Continuing
330: Abrams Tank Improve Prog	-	9.347	97.278	101.319	-	101.319	135.228	110.917	90.042	34.115	Continuing	Continuing
371: Bradley Improve Prog	-	11.858	82.586	76.213	-	76.213	84.709	59.010	40.539	0.000	Continuing	Continuing
DS5: Armored Multi Purpose Vehicle	-	13.841	74.095	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

The Armored Multi Purpose Vehicle Program is submitted under a new Program Element for the FY 2014 President's Budget. The previous program element was 0203735A, Project DS5, Combat Vehicle Improvement Program. The new project element is 0605028A, Project EB5, Armored Multi Purpose Vehicle (AMPV).

A. Mission Description and Budget Item Justification

The Army has approved engineering change proposals for the Abrams and Bradley programs to restore lost platform capability and host inbound technologies.

This Program Element (PE) corrects vehicle deficiencies identified in Army operations; continues technical system upgrades to include the integration of applicable technologies on ground systems; addresses needed evolutionary enhancements to tracked combat vehicles; and develops technology improvements which have application to or insertion opportunities across multiple Ground Combat Systems vehicles. This PE provides combat effectiveness and Operating and Support (O&S) cost reduction enhancements for the Abrams tanks and Bradley Fighting Vehicles through a series of product improvements.

The strategy for Abrams and Bradley will focus on incrementally delivering capability to the warfighter to meet both near-term limitations as well as mitigating gaps and maintaining combat overmatch in the future. This effort was approved by the Army Acquisition Executive in 3Q FY 2011.

The Abrams M1A2 SEP V2 and M2/M3A3 Bradley Fighting Vehicles are at or exceeds Space, Weight, and Power-Cooling (SWaP-C) limitations. In order to host and restore lost platform capability, the Abrams Tank and Bradley Fighting Vehicle programs will execute a series of Engineering Change Proposals (ECPs) to support the current embedded systems and to facilitate integration of technologies currently in development under other existing Programs of Record. The ECPs are not intended to exceed the operational capability outlined in current system requirements documents, but rather to ensure that the existing system performance is not further degraded and that Army mission equipment packages can be integrated on the Abrams and Bradley Platforms.

The Armored Multi-Purpose Vehicle (AMPV) is a materiel solution to support the Armored Brigade Combat Team (ABCT) across the Spectrum of Conflict by replacing five mission roles currently performed by the M113 Family of Vehicles (FOV) and integrating the current M113 FOV Mission Equipment Package (MEP) to a modified existing vehicle platform.

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0203735A: Combat Vehicle Improvement Programs			
BA 7: Operational Systems Development					
The Armored Multi Purpose Vehicle Program is submitted under Program Element 0605028A, Project EB5 for the FY 2014 President's Budget.					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	36.150	253.959	293.007	-	293.007
Current President's Budget	35.046	253.959	177.532	-	177.532
Total Adjustments	-1.104	0.000	-115.475	-	-115.475
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-1.104	-	0.823	-	0.823
• Other Adjustments 2	-	-	-116.298	-	-116.298

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs				PROJECT 330: Abrams Tank Improve Prog			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
330: Abrams Tank Improve Prog	-	9.347	97.278	101.319	-	101.319	135.228	110.917	90.042	34.115	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The Army has approved engineering change proposals for the Abrams program to restore lost platform capability and host inbound technologies.The strategy for Abrams will focus on incrementally delivering capability to the warfighter to meet both near-term limitations as well as mitigating gaps and maintaining combat overmatch in the future. This effort was approved by the Army Acquisition Executive in 3Q FY 2011.												
The Abrams M1A2 SEP V2 vehicle is at or exceeds Space, Weight, and Power-Cooling (SWaP-C) limitations. In order to host and restore lost platform capability, the Abrams Tank will execute a series of Engineering Change Proposals (ECPs) to support the current embedded systems and to facilitate integration of technologies currently in development under other existing Programs of Record. The ECPs are not intended to exceed the operational capability outlined in current system requirements documents, but rather to ensure that the existing system performance is not further degraded and that Army mission equipment packages can be integrated on the Abrams Platform.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Abrams Engineering Change Proposal (ECP) 1										0.818	79.355	83.900
										Articles: 0	0	
Description: The M1A2 SEpv2 improvements implemented through the Abrams ECP 1 Program will restore lost power generation and distribution while incorporating inbound technologies currently under development under other existing Programs.												
FY 2012 Accomplishments: Design and integration of ECP 1 technologies												
FY 2013 Plans: The largest portion of sub-system integration will be executed in FY 2013 with the confirmation of the preliminary design at the Preliminary Design Review. This will quickly be followed by the Critical Design Review in 2Q FY 2014, finalizing the system baseline.												
FY 2014 Plans: The Critical Design Review will occur in 2QFY2014. This will finalize the system baseline and initiate technology integration of Joint Tactical Radio System Handheld Manpack Small (JTRS-HMS) and Joint Battle Command-Platform (JBC-P) to enable												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs	PROJECT 330: Abrams Tank Improve Prog		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
network compatibility, Power Generation/Distribution (battery monitoring system, increased amperage alternator, slip ring), auxiliary power unit, ammunition data link, armor protection upgrade, Counter RCIED Electronics Warfare System (CREW) Duke V3, and Line replacement modules as well as the start of nine (9) prototype builds.				
Title: Program Management Office (PMO) Support Articles: Description: Program Management Office Support includes Systems Engineering and Government and Contractor salaries, travel and other support costs required to effectively manage the program. FY 2012 Accomplishments: System Engineering and Program Management Office Support to effectively manage the program. FY 2013 Plans: Systems Engineering and Program Management Office Support to effectively manage the program. FY 2014 Plans: Systems Engineering and Program Management Office Support to effectively manage the program.		7.555 0	15.934 0	15.467
Title: Test & Evaluation Articles: Description: Test and Evaluation FY 2012 Accomplishments: Test & Evaluation efforts to support system level test events and planning and development of test documentation FY 2013 Plans: Test & Evaluation efforts to support system level test events and planning and development of test documentation FY 2014 Plans: Test & Evaluation efforts to support system level test events and planning and development of test documentation		0.974 0	1.989 0	1.952
Accomplishments/Planned Programs Subtotals		9.347	97.278	101.319

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>				PROJECT 330: <i>Abrams Tank Improve Prog</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Abrams Upgrade Program: <i>Abrams Upgrade Program (GA0750) WTCV</i>	436.329	74.433								0.000	510.762
• M1 Abrams Tank Mod (GA0700): <i>Abrams Vehicle Modification (GA0700) WTCV</i>	131.098	129.090	178.100		178.100	180.000	202.000	215.000	460.000	1,993.900	3,489.188
• Spares (Initial) Abrams Upgrade: <i>Spares (Initial) Abrams Upgrade (GE0161) WTCV</i>	7.219									0.000	7.219
Remarks											
D. Acquisition Strategy											
Abrams Engineering Change Proposal (ECP) 1: Research & Development Contract - Sole Source, Cost Plus Incentive Fee (CPIF) Production Contract - Sole Source, Firm Fixed Price											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs				PROJECT 330: Abrams Tank Improve Prog					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Abrams Engineering Change Proposal (ECP) 1	SS/CPIF	General Dynamics Land Systems:Sterling Heights, MI	89.875	0.818	Sep 2012	79.355	Jan 2013	83.900	Jan 2014	-		83.900	0.000	253.948	0.000
Subtotal			89.875	0.818		79.355		83.900		0.000		83.900	0.000	253.948	0.000
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Office (PMO)Support	SS/LH	Various:Various	22.638	7.555	Dec 2011	15.934	Dec 2012	15.467	Dec 2013	-		15.467	Continuing	Continuing	Continuing
Subtotal			22.638	7.555		15.934		15.467		0.000		15.467			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advance Technology Preparation and Testing	Various	Aberdeen Proving Ground; Yuma Proving Ground; White Sands Missile Range,;Various	8.226	0.974	Feb 2012	1.989	Jan 2013	1.952	Feb 2014	-		1.952	Continuing	Continuing	Continuing
Subtotal			8.226	0.974		1.989		1.952		0.000		1.952			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			120.739	9.347		97.278		101.319		0.000		101.319			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>		PROJECT 330: <i>Abrams Tank Improve Prog</i>	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Development Contract Award																												
Engineering & Manufacturing Development																												
Preliminary Design Review (PDR)																												
Critical Design Review (CDR)																												
Production Contract Award																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>	PROJECT 330: <i>Abrams Tank Improve Prog</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development Contract Award	4	2012	4	2012
Engineering & Manufacturing Development	4	2012	3	2018
Preliminary Design Review (PDR)	4	2013	4	2013
Critical Design Review (CDR)	2	2014	2	2014
Production Contract Award	3	2018	3	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs				PROJECT 371: Bradley Improve Prog			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
371: Bradley Improve Prog	-	11.858	82.586	76.213	-	76.213	84.709	59.010	40.539	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The M2/M3A3 Bradley Fighting Vehicle is at or exceeds Space, Weight, and Power-Cooling (SWAP-C) limitations. To restore lost platform capability and to host other Army Existing Programs of Record, the Bradley Fighting Vehicle program shall execute a series of Engineering Change Proposals (ECPs). ECP 1 improves vehicle's track and suspension while ECP 2 improves the power train and electrical system to enable the A3 fleet to host inbound technologies from Army Program of Records, including Joint Tactical Radio System (JTRS) and Force XXI Battle Command- Brigade and Below (FBCB2). The ECPs are not intended to exceed the operational capability outlined in current system requirement documents, but rather to ensure that the existing system performance is not further degraded and that Army mission equipment packages can be integrated on the Bradley platform.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Bradley ECP Program										3.821	72.586	63.623
										Articles: 0	0	
Description: The Bradley Fighting Vehicle System (BFVS) improvements implemented through the Engineering Change Proposal (ECP) Program will focus on restoring lost platform capability to support Army inbound technologies and to facilitate integration of technologies currently in development under other existing Programs of Record.												
FY 2012 Accomplishments: Award major contracts to begin design and integration of subsystems focusing on restoring space, weight and power limitations.												
FY 2013 Plans: Bradley Modernization - The Bradley Fighting Vehicle System (BFVS) improvements implemented through the Engineering Change Proposal (ECP) Program will focus on restoring lost platform capability to support Army inbound technologies and to facilitate integration of technologies currently in development under other existing Programs of Record.												
FY 2014 Plans: Continue design and integration of subsystems with the Preliminary Design Review. Qualification of subsystems leading towards Critical Design Review in 3rd Qtr FY 2014.												
Title: Support Costs										7.237	10.000	7.518
Articles:										0	0	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs				PROJECT 371: Bradley Improve Prog				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Description: Government System Engineering and Program Management Support Costs. These funds cover the costs of Government salaries, travel and the facilities required to effectively manage the program.												
FY 2012 Accomplishments: Government System Engineering and Program Management Support costs. These funds cover the costs of government salaries, travel and the facilities required to effectively manage the program.												
FY 2013 Plans: Support Costs - Government System Engineering and Program Management Support Costs. These funds cover the costs of Government salaries, travel and the facilities required to effectively manage the program.												
FY 2014 Plans: Government System Engineering and Program Management Support Costs. These funds cover the costs of Government salaries, travel and the facilities required to effectively manage the program.												
Title: Test & Evaluation										0.800	0.000	5.072
Articles:										0		
Description: Test & Evaluations efforts support sub-system test events and planning and development of test documentation.												
FY 2012 Accomplishments: Test & Evaluations efforts support system sub-system test events and planning and development of test documentation.												
FY 2014 Plans: Test & Evaluations efforts support system sub-system test events and planning and development of test documentation.												
Accomplishments/Planned Programs Subtotals										11.858	82.586	76.213
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• GZ2400: Bradley Program (MOD)	250.710	148.193	158.000		158.000	158.000	209.000	478.505	857.546	2,109.000	4,368.954	
Remarks												
D. Acquisition Strategy												
Product Manager Bradley will execute an Engineering Change Proposal (ECP) reestablishing Space, Weight, Power and Cooling (SWAP-C) to facilitate integration of technologies being developed under existing Programs of Record (POR). The proposed ECP will restore lost capability, not to exceed operational envelopes outlined												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>	PROJECT 371: <i>Bradley Improve Prog</i>
<p>in current approved requirement documents. The ECP is scheduled to field in FY 2018 to address powerpack and electrical power upgrades, which will enable the vehicle to host Army directed inbound technologies with no further performance degradation to the vehicle. This ECP will be executed on a sole source cost plus incentive fee contract to the current platform Original Equipment Manufacturer.</p> <p><u>E. Performance Metrics</u></p> <p>Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>						PROJECT 371: <i>Bradley Improve Prog</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Bradley Modernization Program	TBD	PMO:Warren, MI	79.009	-		-		-		-		-	0.000	79.009	0.000
Non Recurring Engineering	SS/CPFF	L3COM:Muskegon, MI	0.000	-		2.202	Aug 2013	6.237	Mar 2014	-		6.237	5.086	13.525	Continuing
Non Recurring Engineering	SS/CPIF	BAE:Sterling Heights, MI	0.000	3.821	Sep 2012	70.384	May 2013	57.386	Mar 2014	-		57.386	145.447	277.038	0.000
Subtotal			79.009	3.821		72.586		63.623		0.000		63.623	150.533	369.572	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMO	MIPR	PMO:Bradley ECP Program	3.500	3.061	Dec 2011	4.000	Dec 2012	2.600	Dec 2013	-		2.600	10.400	23.561	Continuing
Government Engineering Support	MIPR	Various:Bradley ECP Program	11.043	4.176	Dec 2011	6.000	Dec 2012	4.918	Dec 2013	-		4.918	13.090	39.227	Continuing
Subtotal			14.543	7.237		10.000		7.518		0.000		7.518	23.490	62.788	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Component Qualification	MIPR	Various:Test Sites	0.000	0.800		-		5.072		-		5.072	41.340	47.212	0.000
Subtotal			0.000	0.800		0.000		5.072		0.000		5.072	41.340	47.212	0.000
Project Cost Totals			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			93.552	11.858		82.586		76.213		0.000		76.213	215.363	479.572	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>		PROJECT 371: <i>Bradley Improve Prog</i>	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
System Requirements Review																												
Preliminary Design Review																												
Critical Design Review																												
Component Qualification Testing																												
Contractor Vehicle Testing																												
Government Vehicle Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>	PROJECT 371: <i>Bradley Improve Prog</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
System Requirements Review	2	2013	2	2013
Preliminary Design Review	4	2013	4	2013
Critical Design Review	3	2014	3	2014
Component Qualification Testing	3	2014	2	2015
Contractor Vehicle Testing	2	2015	2	2016
Government Vehicle Testing	2	2016	2	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0203735A: Combat Vehicle Improvement Programs				PROJECT DS5: Armored Multi Purpose Vehicle			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
DS5: Armored Multi Purpose Vehicle	-	13.841	74.095	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
The new program element is 0605028A, Project EB5, Armored Multi Purpose Vehicle (AMPV). The previous program element was 0203735A, Project DS5, Combat Vehicle Improvement Program.												
A. Mission Description and Budget Item Justification												
The Armored Multi Purpose Vehicle Program is submitted under Program Element 0605028A, Project EB5 for the FY2014 President's Budget.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Armored Multi-Purpose Vehicle									13.841	74.095	0.000	
									0	0		
Description: The Armored Multi-Purpose Vehicle (AMPV) is a materiel solution to support the Heavy Brigade Combat Team (HBCT) across the Spectrum of Conflict by replacing five mission roles currently performed by the M113 Family of Vehicles (FOV) and integrating the current M113 FOV Mission Equipment Packages (MEP) to a modified existing vehicle platform.												
FY 2012 Accomplishments: The Training and Doctrine Command Analysis Center completed the AMPV Analysis of Alternatives (AoA) and determined a tracked vehicle was the best solution. In preparation for a competitive acquisition a performance specification was developed for incorporation into the Request for Proposal (RFP). PM AMPV also held an Industry Day and Defense Acquisition University (DAU) workshop to support a competitive acquisition approach. Government furnished material is being prepped by Red River Army Depot (RRAD) and Anniston Army Depot (ANAD) and a Bradley chassis Technical Data Package (TDP) is being validated to make available to potential contractors during proposal development. FY 2012 also included preparation of Milestone Documents in anticipation of an FY12 Defense Acquisition Board (DAB) Integrated Process Review (IPR), and an Integrated Support Plan to support staffing of the Capabilities Development Document. Test support activities were funded in support of the Test and Evaluation Master Plan preparation (TEMP).												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>	PROJECT DS5: <i>Armored Multi Purpose Vehicle</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
In FY 2013 funding will be used for continued support of Milestone Documentation preparation, configuration/data management efforts for performance specification updates, RFP development and staffing, test support activities for development, coordination and staffing of the TEMP and Government Furnished Material (GFM) preparation. Request for Proposal will be released and a Source Selection Evaluation Board will be stood up for contractor proposal evaluation.			
Accomplishments/Planned Programs Subtotals		13.841	74.095
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0203735A: <i>Combat Vehicle Improvement Programs</i>						PROJECT DS5: <i>Armored Multi Purpose Vehicle</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AMPV Development	MIPR	Other Government Agencies:Various locations	0.000	8.263	Sep 2012	57.101	Dec 2012	-		-		-	0.000	65.364	0.000
Subtotal			0.000	8.263		57.101		0.000		0.000		0.000	0.000	65.364	0.000
Remarks Armored Multi Purpose Vehicle Tech data and system level product development costs.															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AMPV Documentation	C/FFP	Camber:Michigan	0.000	1.000	May 2012	1.016	Jan 2013	-		-		-	0.000	2.016	0.000
Program Management Office (PMO)	MIPR	PMO:Warren, MI	0.000	1.790	Feb 2012	2.973	Dec 2012	-		-		-	0.000	4.763	0.000
Other Program Support	MIPR	OGAs:Various locations	0.000	2.788	Feb 2012	13.005	Feb 2013	-		-		-	0.000	15.793	0.000
Subtotal			0.000	5.578		16.994		0.000		0.000		0.000	0.000	22.572	0.000
Remarks AMPV Support Costs															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	13.841		74.095		0.000		0.000		0.000	0.000	87.936	0.000
Remarks															