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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	1.918	69.981	-	-	-	-	-	-	-	Continuing	Continuing
E40: <i>LTV Prototype</i>	1.918	69.981	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a lightweight, high performance, four-wheel drive, air transportable and air droppable, high mobility tactical wheeled vehicle. The HMMWV consists of a basic design with several variants including Cargo/Utility, Armament Carrier, Ambulance, Shelter Carrier and Armored Armament Carrier. RDT&E efforts are to resolve current known safety issues/restrictions, comply with 2004 HMMWV ORD requirements and obtain Full Material Release for vehicles fielded with Fragmentation armor under Urgent Material Release (threshold ~16,500lbs Gross Vehicle Weight). FY12 funding supports the Army initiative for an Up Armored HMMWV (UAH) Program which will integrate enhanced capabilities into the Expanded Capacity Vehicle (ECV) chassis. The intent of the program is to develop solutions to resolve safety restrictions, enhance fuel economy, restore automotive/mobility performance lost with the addition of armor, provide a chassis that could potentially accept future survivability improvements and provide a long term sustainment alternative based on current production obsolescence.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.990	-	-	-	-
Current President's Budget	1.918	69.981	-	-	-
Total Adjustments	-0.072	69.981	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-0.072	69.981	-	-	-

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
E40: <i>LTV Prototype</i>	1.918	69.981	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a lightweight, high performance, four-wheel drive, air transportable and air droppable, high mobility tactical wheeled vehicle. The HMMWV consists of a basic design with several variants including Cargo/Utility, Armament Carrier, Ambulance, Shelter Carrier and Armored Armament Carrier. RDT&E efforts are to resolve current known safety issues/restrictions, comply with 2004 HMMWV ORD requirements and obtain Full Material Release for vehicles fielded with Fragmentation armor under Urgent Material Release (threshold ~16,500lbs Gross Vehicle Weight). FY12 funding supports the Army initiative for an Up Armored HMMWV (UAH) Program which will integrate enhanced capabilities into the Expanded Capacity Vehicle (ECV) chassis. The intent of the program is to develop solutions to resolve safety restrictions, enhance fuel economy, restore automotive/mobility performance lost with the addition of armor, provide a chassis that could potentially accept future survivability improvements and provide a long term sustainment alternative based on current production obsolescence.

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p>Title: MECV Program</p> <p align="right">Articles:</p> <p>Description: Funding was provided for MECV Phase I planning and development.</p> <p>FY 2011 Accomplishments: MECV program in-house support and test planning were provided. Engineering support will be funded in the second quarter of FY 2012.</p>	1.918 0	-	-	-	-
<p>Title: Enhanced Powertrain Suspension Improvement Program (EPSI)</p> <p align="right">Articles:</p> <p>Description: EPSI Program Management and Source Selection Evaluation Board (SSEB)</p> <p>FY 2012 Plans: Program and Source Selection support.</p>	-	23.564 0	-	-	-
<p>Title: EPSI Contract Award</p> <p align="right">Articles:</p> <p>Description: Single vendor contract award.</p>	-	28.692 0	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<i>FY 2012 Plans:</i> Single vendor contract award will be selected to produce and test EPSI solution. Estimated contract planned award is 3Q FY13.					
<i>Title:</i> EPSI Testing <i>Description:</i> Multiple test efforts. Planned test efforts include automotive, endurance and log demo.	-	17.725 0	-	-	-
<i>FY 2012 Plans:</i> Planned test efforts include automotive, endurance and log demo. Planned contract award date is 3Q FY13.					
Accomplishments/Planned Programs Subtotals	1.918	69.981	-	-	-

C. Other Program Funding Summary (\$ in Millions)										
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete Total Cost</u>
• DV0230: <i>HMMWV RECAPITALIZATION PROGRAM DV0230</i>	989.067	4.313	0.000	271.000	271.000					0.000 1,264.380

D. Acquisition Strategy
The HMMWV Enhanced Powertrain Suspension Improvement (EPSI) Program strategy involves best value acquisition and will evaluate proposals and test vehicles under a full and open competition Request for Proposal (RFP), resulting in one Cost Plus Fixed Fee (CPFF) contracts. It is recommended that the system will enter into the acquisition life-cycle at pre-Milestone C. The new HMMWV EPSI systems are anticipated to be full materiel released as an upgrade on the current M1151 series UAHs. Performance Qualification testing will occur in a relevant environment at Government test facilities. The main goal of testing for this program is to ensure that the EPSI meets all threshold requirements of the performance specification, to include validation of Up-Armored HMMWV (UAH) automotive performance through Production Qualification Testing (PQT) and Reliability and Maintainability (RAM).

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 2013 Army **DATE:** February 2012

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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EPSI Contract Award	C/CPFF	TBS:TBS	-	28.692		-		-		-	0.000	28.692	0.000
Subtotal			-	28.692		-		-		-	0.000	28.692	0.000

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MECV Program Support	MIPR	PM LTV:TACOM Warren, MI	0.334	-		-		-		-	0.000	0.334	0.000
EPSI Program Management and SSEB	MIPR	PM LTV, TACOM:Warren, MI	-	23.444		-		-		-	0.000	23.444	0.000
EPSI Program Support	MIPR	AEC:Aberdeen Proving Ground, MD	-	0.120		-		-		-	0.000	0.120	0.000
MECV Program Engineering Support	MIPR	TARDEC and PM LTV:TACOM Warren, MI	1.525	-		-		-		-	0.000	1.525	0.000
Subtotal			1.859	23.564		-		-		-	0.000	25.423	0.000

Remarks
Not applicable

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EPSI Testing	C/CPFF	TBS:TBS	-	17.725		-		-		-	0.000	17.725	0.000
MECV Test Planning	MIPR	ATC:Aberdeen Proving Grounds, MD	0.059	-		-		-		-	0.000	0.059	0.000
Subtotal			0.059	17.725		-		-		-	0.000	17.784	0.000

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	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.918	69.981		-		-		-	0.000	71.899	0.000

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army **DATE:** February 2012

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FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
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

RFP / Source Selection Evaluation Board (SSEB)	████████████████████
Contract Award	████
Auto, Endurance and Production Qualification Testing (PQT),	████████████████
Log Demo	████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army **DATE:** February 2012

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
RFP / Source Selection Evaluation Board (SSEB)	4	2012	3	2013
Contract Award	3	2013	3	2013
Auto, Endurance and Production Qualification Testing (PQT),	4	2013	2	2014
Log Demo	1	2014	2	2014