

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604642A: LIGHT TACTICAL WHEELED VEHICLES							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	1.990	0.000	1.990	0.000	0.000	0.000	0.000	0	3.980
E40: LTV Prototype	0.000	0.000	1.990	0.000	1.990	0.000	0.000	0.000	0.000	Continuing	Continuing
Note Not applicable for this item.											
A. Mission Description and Budget Item Justification The High Mobility Multi-Purpose 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. FY 2011 Core funding supports improvements to the HMMWV family of vehicles through the development of an ambulance variant on the ECV chassis. Utilizing current production chassis for the ambulance variant incorporates engine technologies and maintainability improvements, which will result in decreased operational support costs. There are no FY 2011 OCO RDTE dollars under this program.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	0.000	0.000	0.000	0.000	0.000						
Current President's Budget	0.000	0.000	1.990	0.000	1.990						
Total Adjustments	0.000	0.000	1.990	0.000	1.990						
• Congressional General Reductions		0.000									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	0.000	0.000									
• SBIR/STTR Transfer	0.000	0.000									
• Adjustments to Budget Years	0.000	0.000	1.990	0.000	1.990						

**UNCLASSIFIED**

R-1 Line Item #85

Page 1 of 9

768 of 1922

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>	
<u>Change Summary Explanation</u> Funding - FY 2011 Core: Funds added to support the HMMWV ambulance program.		

UNCLASSIFIED

R-1 Line Item #85

Page 2 of 9

769 of 1922

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>				<b>PROJECT</b> E40: <i>LTV Prototype</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
E40: <i>LTV Prototype</i>	0.000	0.000	1.990	0.000	1.990	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
<b>A. Mission Description and Budget Item Justification</b> The High Mobility Multi-Purpose 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. FY 2011 Core funding supports improvements to the HMMWV family of vehicles through the development of an ambulance variant on the ECV chassis. Utilizing current production chassis for the ambulance variant incorporates engine technologies and maintainability improvements, which will result in decreased operational support costs. There are no FY 2011 OCO RDTE dollars under this program.											
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
							<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
Program #1							0.000	0.000	1.990	0.000	1.990
FY 2011 Core Funding supports XM997A3 HMMWV Ambulance Platform Development and Testing											
<i>FY 2009 Accomplishments:</i>											
FY 2009											
<i>FY 2010 Plans:</i>											
FY 2010											
<i>FY 2011 Base Plans:</i>											
FY 2011 Base											
<i>FY 2011 OCO Plans:</i>											
FY 2011 OCO											

**UNCLASSIFIED**

R-1 Line Item #85

Page 3 of 9

770 of 1922

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army							<b>DATE:</b> February 2010				
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>			<b>PROJECT</b> E40: <i>LTV Prototype</i>					
<b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>											
						<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	
Accomplishments/Planned Programs Subtotals						0.000	0.000	1.990	0.000	1.990	
<b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>											
<b><u>Line Item</u></b>	<b><u>FY 2009</u></b>	<b><u>FY 2010</u></b>	<b><u>FY 2011 Base</u></b>	<b><u>FY 2011 OCO</u></b>	<b><u>FY 2011 Total</u></b>	<b><u>FY 2012</u></b>	<b><u>FY 2013</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>	<b><u>Cost To Complete</u></b>	<b><u>Total Cost</u></b>
• Ord. #1: <i>OPA1 Hi Mob Multi-Purp Whld Veh (D15400)</i>	1,511.125	1,344.230	0.000	0.000	0.000	202.556	0.000	0.000	27.697	0	3,085.608
<b><u>D. Acquisition Strategy</u></b>											
<p>The HMMWV Ambulance strategy involves the integration of the M997A2 ambulance box on an Expanded Capacity Vehicle (ECV) chassis. The new vehicle platform is anticipated to be classified as XM997A3. Integration of the two full materiel release systems is anticipated to allow the XM997A3 to enter the acquisition system post-milestone B. FY 2011 Core RDT&amp;E will be used to fund the developmental testing portion of the XM997A3 program. Developmental testing will occur in a relevant environment at Government and contractor test facilities. The main goals of the developmental testing for this program are: 1.) to ensure that the modified air conditioning configuration on the XM997A3 will meet or exceed the air conditioning requirements of the current ECV platforms; 2.) to ensure that the air conditioning configuration on the XM997A3 will not degrade vehicle powertrain and driveline performance; and 3.) to ensure structural integrity of the integration of the legacy ambulance box on the ECV chassis. This will ensure that the XM997A3 platform will be ready for operational testing to properly support needs of the Army medical community.</p>											
<b><u>E. Performance Metrics</u></b>											
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.											

**UNCLASSIFIED**

R-1 Line Item #85

Page 4 of 9

771 of 1922

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Army</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>				<b>PROJECT</b> E40: <i>LTV Prototype</i>					
<b>Product Development (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
FY 2011 Core funding supports XM997A3 Ambulance Platform Development/Testing	SS/FFP	Mishawaka IN	0.000	0.000		0.390		0.000		0.390	Continuing	Continuing	0
<b>Subtotal</b>			0.000	0.000		0.390		0.000		0.390			0.000
<b>Remarks</b>													
<b>Support (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Cost Category Item is empty.	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.000		0.000		0.000		0.000	0	0	0
<b>Subtotal</b>			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
<b>Remarks</b>													
Not applicable													

**UNCLASSIFIED**

R-1 Line Item #85

Page 5 of 9

772 of 1922

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Army</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>				<b>PROJECT</b> E40: <i>LTV Prototype</i>					
<b>Test and Evaluation (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
FY 2011 Core Funding Supports XM997A3 Structural/Endurance Testing	C	ATC Aberdeen, MD	0.000	0.000		1.600		0.000		1.600	Continuing	Continuing	0
<b>Subtotal</b>			0.000	0.000		1.600		0.000		1.600			0.000
<b>Remarks</b>													
<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Cost Category Item is empty.	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.000		0.000		0.000		0.000	0	0	0
<b>Subtotal</b>			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
<b>Remarks</b>													
Not applicable													

**UNCLASSIFIED**

R-1 Line Item #85

Page 6 of 9

773 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army							DATE: February 2010					
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>			PROJECT E40: <i>LTV Prototype</i>					
		Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		0.000	0.000		1.990		0.000		1.990			0.000
Remarks												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>												R-1 ITEM NOMENCLATURE PE 0604642A: <i>LIGHT TACTICAL WHEELED VEHICLES</i>												PROJECT E40: <i>LTV Prototype</i>			



**UNCLASSIFIED**

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604642A: LIGHT TACTICAL WHEELED VEHICLES	PROJECT E40: LTV Prototype		
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Contract Award	1	2011	1	2011
XM997A3 Developmental Testing	1	2011	3	2011

**UNCLASSIFIED**