

# UNCLASSIFIED

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 5: System Development & Demonstration (SDD)					PE 0605812A: Joint Light Tactical Vehicle - ED							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.000	72.295	84.230	-	84.230	34.700	33.224	26.123	3.281	Continuing	Continuing
VU9: Joint Light Tactical Vehicle - ED	-	0.000	72.295	84.230	-	84.230	34.700	33.224	26.123	3.281	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												
<b>Note</b>												
At the request of the House Armed Services Committee - Air and Land Forces, a separate and distinct funding line (0605812A-VU9) was established for JLTV, transition of Project L50 funding to this newly established Program Element (PE) occurred in FY 2013.												
<b>A. Mission Description and Budget Item Justification</b>												
Joint Light Tactical Vehicles (JLTV): Funding supports the development and testing of the JLTV Family of Vehicles (FoV), which is joint program between the U.S. Army and the Marine Corps. The JLTV goal is a FoV capable of performing multiple mission roles that will be designed to provide protected, sustained, networked mobility for personnel and payloads across the full range of military operations. JLTV objectives include increased protection and performance over the current fleet; minimizing ownership costs by maximizing commonality, fuel efficiency, reliability, and maintaining effective competition throughout throughout the lifecycle. Commonality of components, maintenance procedures, training, etc., between vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized.												
During FY 2014, major budget activities include continuation of three Engineering and Manufacturing Development contracts; Performance testing, Reliability, Availability and Maintainability (RAM) testing, Ballistic and Automatic Fire Extinguishing System (AFES), and Limited User testing, analysis of reports in preparation of Milestone C, and program management support.												

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0605812A: Joint Light Tactical Vehicle - ED			
BA 5: System Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	72.295	76.163	-	76.163
Current President's Budget	0.000	72.295	84.230	-	84.230
Total Adjustments	0.000	0.000	8.067	-	8.067
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	8.067	-	8.067

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605812A: Joint Light Tactical Vehicle - ED				PROJECT VU9: Joint Light Tactical Vehicle - ED			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
VU9: Joint Light Tactical Vehicle - ED	-	0.000	72.295	84.230	-	84.230	34.700	33.224	26.123	3.281	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												
FY 2008 - FY 2011 funding for the Joint Light Tactical Vehicles (JLTV) program is under Program Element (PE) 0603804A, Project L04.												
FY 2012 funding for the Joint Light Tactical Vehicles (JLTV) program is under Program Element (PE) 0604804A, Project L50.												
FY 2013 and out year funding is under Project Element (PE) 0605812A, Project VU9.												
A. Mission Description and Budget Item Justification												
Funding supports the development and testing of the Joint Light Tactical Vehicle (JLTV) Family of Vehicles (FoV), which is a joint program between the U.S. Army and the U.S. Marine Corps. The JLTV goal is a FoV capable of performing multiple mission roles that will be designed to provide protected, sustained, networked mobility for personnel and payloads across the full range of military operations. JLTV objectives include increased protection and performance over the current fleet; minimizing ownership costs by maximizing commonality, fuel efficiency, reliability, and maintaining effective competition throughout the life cycle. Commonality of components, maintenance procedures, training, etc., between vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized.												
During FY 2014, major budget activities include continuation of three Engineering and Manufacturing Development (EMD) contracts; Performance testing, Reliability, Availability and Maintainability (RAM) testing, Ballistic and Automatic Fire Extinguishing System (AFES), and Limited User Testing (LUT), and analysis of reports in preparation of Milestone C, and program management support.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Engineering and Manufacturing Development (EMD) prototype contract and support for development and fabrication.  Articles:  Description: Funding is provided for EMD prototype contract award for development and fabrication.  FY 2013 Plans: Funding is provided for continued EMD prototype Joint Light Tactical Vehicles development and fabrication.  FY 2014 Plans:									0.000	40.525	32.329	
										0		

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605812A: Joint Light Tactical Vehicle - ED			PROJECT VU9: Joint Light Tactical Vehicle - ED				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2012	FY 2013	FY 2014		
Funding is provided for continued EMD prototype Joint Light Tactical Vehicles development and fabrication.											
Title: Joint Light Tactical Vehicles (JLTV) program management support  Description: Funding is provided for the support of program management government operations.  FY 2013 Plans: Various costs to provide effort during the Engineering and Manufacturing Development (EMD) phase  FY 2014 Plans: Various costs to provide effort during the EMD phase to include program management, level of effort reports, test evaluation analyses, integrated logistics support, government furnished equipment management, Training Aids, Devices, Simulators, and Simulations (TADSS), building maintenance, building utilities, and vehicle leases.							Articles:  0.000	11.652 0	13.580		
Title: Engineering and Manufacturing Development Test and Evaluations.  Description: Funding is provided for continuation of Engineering and Manufacturing Development (EMD) performance testing, Reliability, Availability and Maintainability (RAM) testing, Test Readiness Reviews (TRR), Coupon Testing, Operational Test and Readiness Review (OTRR), Ballistic & Automatic Fire Extinguishing System (AFES) Testing, and Limited User Testing (LUT).  FY 2013 Plans: Engineering and Manufacturing Development Test support.  FY 2014 Plans: Engineering and Manufacturing Development Test support.							Articles:  0.000	20.118 0	38.321		
Accomplishments/Planned Programs Subtotals							0.000	72.295	84.230		
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
• PM JLTV PROJECT L50: Joint Light Tactical Vehicles (JLTV), 0604804A, Army RDTE Project L50	84.500									Continuing	Continuing

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605812A: Joint Light Tactical Vehicle - ED				PROJECT VU9: Joint Light Tactical Vehicle - ED		
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
• PM JLTV PRODUCTION D15603: Joint Light Tactical Vehicles (JLTV), D15603, Army OPA 1						178.305	312.866	606.299	846.919	Continuing	Continuing
• PM JLTV PROJECT 3209 0603635M: Marine Corps Ground Combat/Support Systems, RDTE Project 3209 0603635M	45.945									Continuing	Continuing
• PM JLTV PROJECT 3209 0605812M: Marine Corps Ground Combat/Support Systems, RDTE Project 3209 0605812M		44.500	50.362		50.362	16.606	33.058	23.938	2.372	Continuing	Continuing
• PM JLTV PRODUCTION 5095: Marine Corps Ground Combat/ Support Systems, Production 5095						30.521	99.536	143.062	520.468	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
Joint Light Tactical Vehicles (JLTV) is a Joint Services Program with the U.S. Army and Marine Corps as the two main components. In addition, the Navy anticipates procuring JLTV vehicles upon successful Low-Rate Initial Production (LRIP) testing. The program will use an evolutionary approach to deliver capabilities in increments based on program priorities. All technologies entering the current Engineering, Manufacturing and Development (EMD) phase shall be no less than Technology Readiness Level 6 to achieve Capabilities Development Document (CDD) requirements.											
The program revised the acquisition strategy in the first quarter FY 2012 addressing Better Buying Power Initiatives, and reduced the schedule by 15 months to enable a 33-month Non-Developmental Item approach for EMD with Milestone B approved on 9 August 2012.											
Increment I will produce two Mission Role Variant (MRV) configurations (Combat Tactical Vehicle (CTV) and Combat Support Vehicle (CSV)) with mission packages (General Purpose, Heavy Guns Carrier, Close Combat Weapons Carrier, and Utility/Shelter Carrier). EMD vendors will fabricate 22 vehicles which will represent mission packages from both MRVs, which the Government will fully test during the EMD phase. Agreement was reached between the PM and user community to eliminate two mission packages, the Special Purpose (SP) and Command and Control On-The Move (C2OTM) vehicles which integrated Warfighter Information Network - Tactical (WIN-T) systems for the Army. Eliminating these unique vehicles reduces technical risk and cost of the JLTV EMD effort. It also eliminates duplicate development and relies on the WIN-T program's existing efforts to fund, integrate, and test their capabilities on other vehicles during the JLTV EMD schedule.											

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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 &amp; Evaluation, Army</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605812A: <i>Joint Light Tactical Vehicle - ED</i>	PROJECT VU9: <i>Joint Light Tactical Vehicle - ED</i>
<p>Through a full and open competition, the program awarded three firm-fixed price contracts for the EMD phase on 22 August 2012. Unless future market research identifies a valid non-EMD vendor capable of delivering the required capabilities, there will be a down-select from the EMD contractors to enter into the Production and Deployment phase. The down-select will result in a fixed-price type contract with a base LRIP quantity, LRIP options, full-rate production options, and a Technical Data Package option.</p> <p><b><u>E. Performance Metrics</u></b></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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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Army</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0605812A: <i>Joint Light Tactical Vehicle - ED</i>						<b>PROJECT</b> VU9: <i>Joint Light Tactical Vehicle - ED</i>			
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</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>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
JLTV Contract Service Support	SS/CPFF	Booz-Allen Hamilton,;McLean, VA	0.000	-		2.422	Mar 2013	6.325	Dec 2013	-		6.325	Continuing	Continuing	Continuing
JLTV Contract Service Support	SS/CPFF	Camber Corporation,;Huntsville, AL	0.000	-		0.200	Apr 2013	0.260	Sep 2014	-		0.260	Continuing	Continuing	Continuing
JLTV Contract Service Support	SS/CPFF	US Army Combined Arms Support Commands - CASCOM,;Ft. Lee, VA	0.000	-		0.200	Apr 2013	0.225	Apr 2014	-		0.225	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	0.000		2.822		6.810		0.000		6.810			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</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>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Joint Light Tactical Vehicles (JLTV) Engineering and Manufacturing Development Contract	C/FFP	Oshkosh Corporation,;Oshkosh, WI	0.000	-		-		3.475	Dec 2013	-		3.475	3.475	6.950	55.878
JLTV Engineering and Manufacturing Development Contract	C/FFP	Lockheed Martin Corporation,;Grand Prairie, TX	0.000	-		-		3.772	Dec 2013	-		3.772	3.772	7.544	65.000
JLTV Engineering and Manufacturing Development Contract	C/FFP	AM General,;South Bend, IN	0.000	-		-		3.789	Dec 2013	-		3.789	3.789	7.578	63.880
JLTV Engineering and Manufacturing Development Contract	C/FFP	TBD:TBD	0.000	-		31.609	Dec 2012	-		-		-	0.000	31.609	31.609
<b>Subtotal</b>			0.000	0.000		31.609		11.036		0.000		11.036	11.036	53.681	216.367

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0605812A: Joint Light Tactical Vehicle - ED				PROJECT VU9: Joint Light Tactical Vehicle - ED					
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
Remarks Joint Light Tactical Vehicles (JLTV) is a Joint Services Program with the U.S. Army and U.S. Marine Corps as the two main components. Total value of contract is shared between the U.S. Army and the U.S. Marine Corps. Contract awards were funded in FY 2012, U.S. Army under PE 0604804A Project L50 and U.S. Marine Corps under PE 0603635M Project 3209.															
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
JLTV Program Management Support	Various	TACOM Life Cycle Management Command (LCMC),:Harrison Township, MI	0.000	-		11.652	Sep 2013	13.580	Sep 2014	-		13.580	Continuing	Continuing	Continuing
GFE Management / Logistics / Training Aids, Devices, Simulators and Simulations (TADSS) / Analysis	MIPR	Various:TBD	0.000	-		-		3.325	Jan 2014	-		3.325	Continuing	Continuing	Continuing
Research and development level of effort studies.	C/ FFPLOE	TBD:TBD	0.000	-		-		3.500	Jan 2014	-		3.500	0.000	3.500	3.500
JLTV Program Prototype for Engineering, Manufacturing, and Development Phase	MIPR	Tank-Automotive Reseach, Development, and Engineering Center - TARDEC:Warren, MI	0.000	-		3.985	Mar 2013	4.709	Mar 2014	-		4.709	Continuing	Continuing	Continuing
JLTV Prototype EMD Phase - Cost and Systems, Legal, Budget, Safety, Security, Contracting, Logistics	MIPR	TACOM Life Cycle Management Command (LCMC),:Warren, MI	0.000	-		2.109	Mar 2013	2.949	Mar 2014	-		2.949	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		17.746		28.063		0.000		28.063			



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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Army												<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>							<b>R-1 ITEM NOMENCLATURE</b> PE 0605812A: <i>Joint Light Tactical Vehicle - ED</i>				<b>PROJECT</b> VU9: <i>Joint Light Tactical Vehicle - ED</i>			

  

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</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>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
JLTV EMD Test - Performance, RAM, Ballistic, and LUT	Various	TBD:Various	0.000	-		20.118	Jul 2013	38.321	Oct 2013	-		38.321	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	0.000		20.118		38.321		0.000		38.321			

  

	<b>All Prior Years</b>	<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	0.000	0.000		72.295		84.230		0.000		84.230			

  

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2014 Army			<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0605812A: <i>Joint Light Tactical Vehicle - ED</i>		
			<b>PROJECT</b> VU9: <i>Joint Light Tactical Vehicle - ED</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
MS B				■																								
Engineering and Manufacturing Development (EMD) Contract Award				■																								
EMD Contract				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
EMD Test and Validation / Reports				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Milestone C Preparation													■	■	■	■												
MS C													■	■	■	■												
Low-Rate Initial Production (LRIP) Contract Award																■	■	■	■	■	■	■	■	■	■	■	■	■
LRIP Contract																■	■	■	■	■	■	■	■	■	■	■	■	■
Full-Rate Production (FRP) Decision																									■	■	■	■

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Army			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605812A: <i>Joint Light Tactical Vehicle - ED</i>	<b>PROJECT</b> VU9: <i>Joint Light Tactical Vehicle - ED</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MS B	4	2012	4	2012
Engineering and Manufacturing Development (EMD) Contract Award	4	2012	4	2012
EMD Contract	4	2012	1	2015
EMD Test and Validation / Reports	1	2013	2	2015
Milestone C Preparation	1	2015	3	2015
MS C	3	2015	3	2015
Low-Rate Initial Production (LRIP) Contract Award	4	2015	4	2015
LRIP Contract	4	2015	4	2018
Full-Rate Production (FRP) Decision	2	2018	2	2018