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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army										Date: May 2017			
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605812A I Joint Light Tactical Vehicle - ED								
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
Total Program Element	-	31.197	11.530	23.467	-	23.467	3.056	3.112	2.120	2.184	Continuing	Continuing	
VU9: Joint Light Tactical Vehicle - ED	-	31.197	11.530	23.467	-	23.467	3.056	3.112	2.120	2.184	Continuing	Continuing	

Note

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 JLTV Family of Vehicles (FoV). JLTV is a joint program between the U.S. Army and the U.S. Marine Corps, of which the U.S. Army is the lead service. The JLTV goal is a FoV capable of performing multiple mission roles designed to provide protected, sustained, and networked mobility for personnel and payloads across the full Range of Military Operations (ROMO). JLTV objectives include increased performance, protection, and payload over the current legacy HMMWV fleet, minimizing ownership costs by maximizing commonality, fuel efficiency and reliability. The commonality of components, maintenance procedures, training, etc., among vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized.

Major FY18 budget activities include the continued monitoring of contractor performance, completion of provisioning and logistics publications for test, and the completion of the Low-Rate Initial Production (LRIP) test program required events such as: Full Up System Level (FUSL) test, Multi-Service Operational Test and Evaluation (MOT&E), Automatic Fire Extinguishing System (AFES) test, and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) test.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	32.486	11.530	3.022	-	3.022
Current President's Budget	31.197	11.530	23.467	-	23.467
Total Adjustments	-1.289	0.000	20.445	-	20.445
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.289	-			
• Adjustments to Budget Years	0.000	0.000	20.445	-	20.445

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<p><u>Change Summary Explanation</u></p> <p>FY18 JLTV OPA funds re-colored to RDT&E to Support Operational Testing and the Multi-Service Operational Test and Evaluation (MOT&E) event in preparation for the Full Rate Production (FRP) decision in FY19.</p>		

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605812A / Joint Light Tactical Vehicle - ED				Project (Number/Name) VU9 / Joint Light Tactical Vehicle - ED			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
VU9: Joint Light Tactical Vehicle - ED	-	31.197	11.530	23.467	-	23.467	3.056	3.112	2.120	2.184	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

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 JLTV Family of Vehicles (FoV). JLTV is a joint program between the U.S. Army and the U.S. Marine Corps, of which the U.S. Army is the lead service. The JLTV goal is a FoV capable of performing multiple mission roles designed to provide protected, sustained, and networked mobility for personnel and payloads across the full Range of Military Operations (ROMO). JLTV objectives include increased performance, protection, and payload over the current legacy HMMWV fleet, minimizing ownership costs by maximizing commonality, fuel efficiency and reliability. The commonality of components, maintenance procedures, training, etc., among vehicles is expected to be inherent in FoV solutions across mission variants to minimize total ownership cost. Unique service requirements have been minimized.

Major FY18 budget activities include the continued monitoring of contractor performance, completion of provisioning and logistics publications for test, and the completion of the Low-Rate Initial Production (LRIP) test program required events such as: Multi-Service Operational Test and Evaluation (MOT&E) and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) test.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
Title: Contract and support for development, fabrication, and test of live fire test assets.	17.200	4.271	4.109
Description: Funding is provided for the contract award for live fire test assets.			
FY 2016 Accomplishments: Contract awarded for Government System Integration Lab, Contractor Test Support, trailers, installation and packaged kits in support of Live Fire Testing Events and for Live Fire Test Assets that will be that will be destroyed during ballistic testing. Continued logistics support of GFE which will be destroyed during live fire test events.			
FY 2017 Plans: Funding provides for contract award to continue testing of Live Fire Test Assets that will be destroyed during ballistic testing and support for live fire testing. Continue logistics support of GFE which will be destroyed during live fire test events.			
FY 2018 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
Funding is provided for LRIP Contractor Test Support Contract Award.				
Title: Joint Light Tactical Vehicles (JLTV) program management support Description: Funding is provided for the support of program management government operations. FY 2016 Accomplishments: Support for LRIP phase to include program management and monitoring of vendor performance for the live fire tests. FY 2017 Plans: Continue support for LRIP phase to include monitoring of vendor performance for the live fire asset effort and program management. FY 2018 Plans: Continue support for LRIP phase to include monitoring of vendor performance and program management.		3.159	2.046	1.432
Title: Test and Evaluation Events and Analysis. Description: Test and Evaluation Events FY 2016 Accomplishments: Finalized the LRIP test plan and started the LRIP test program to include Full Up System Level (FUSL), Automatic Fire Extinguishing System (AFES), ballistic, corrosion, and roof crush. FY 2017 Plans: Beginning of Logistics Demonstration testing and the continuation of the LRIP test program to include Full Up System Level (FUSL), Automatic Fire Extinguishing System (AFES), corrosion, and ballistic testing. FY 2018 Plans: Continued monitoring of contractor performance, completion of provisioning and logistics publications for test, and the completion of the Low-Rate Initial Production (LRIP) test program required events such as: Full Up System Level (FUSL) test, Multi-Service Operational Test and Evaluation (MOT&E), Automatic Fire Extinguishing System (AFES) test, and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) test.		10.838	5.213	12.249
Title: Science and Technology Updates. Description: Funding is provided for the support of JLTV science and technology updates. FY 2018 Plans:		-	-	5.677

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
Science and Technology funds will be used to explore Acoustic and Thermal signature mitigation technology along with research into potential fuel economy savings.												
Accomplishments/Planned Programs Subtotals										31.197	11.530	23.467
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
• PM JLTV PRODUCTION D15603: <i>Joint Light Tactical Vehicles (JLTV), D15603, Army OPA 1</i>	249.911	587.514	804.440	-	804.440	1,078.794	1,099.507	1,135.483	1,168.494	Continuing	Continuing	
• PM JLTV PROJECT 3209 <i>0605812M: Marine Corps Ground Combat/Support Systems, RDTE Project 3209 0605812M</i>	24.790	23.197	20.710	-	20.710	2.280	2.135	-	-	Continuing	Continuing	
• PM JLTV PRODUCTION 5095: <i>Marine Corps Ground Combat/Support Systems, Production 5095</i>	58.578	113.230	217.739	-	217.739	665.477	739.211	469.511	532.720	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Joint Light Tactical Vehicle (JLTV) is a Joint Service Program with the U.S. Army and U.S. Marine Corps as the two main components. The U.S. Army is the JLTV service lead.												
The JLTV Program entered the Production and Deployment Phase with the Acquisition Decision Memorandum authorization on 25 August 2015. With Milestone C approval, the LRIP fixed price contract was awarded to Oshkosh Defense LLC on 25 August 2015. This contract consists of a three year LRIP period with options for five additional years of FRP deliveries. JPO JLTV requested separately priced firm fixed price (FFP) option(s) for purchase of the Technical Data Package (TDP) with appropriate data rights to allow for possible future competition for production vehicles and spares.												
During the LRIP phase, JPO JLTV will continue to produce production vehicles for extensive Test and Evaluation activities to support a FRP decision. A ramp up of JLTV quantities will continue thru FY19 to support fielding to U.S. Army and USMC units once the FRP decision is achieved and allow the program to transition into Full Rate production.												

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<p>The JLTV program will continually monitor emerging technologies and capabilities through its partnerships with U.S. Army and Marine Corps science and technology organizations as well as through industry market research and partnerships. At this time follow-on increments for technology insertion are undefined; the JLTV program will look for opportunities to implement increased capabilities throughout the system's Life Cycle.</p> <p>E. Performance Metrics N/A</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army													Date: May 2017		
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
2040 / 5				PE 0605812A / Joint Light Tactical Vehicle - ED						VU9 / Joint Light Tactical Vehicle - ED					
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Light Tactical Vehicles (JLTV) Contract Service Support	SS/CPFF	Booz-Allen Hamilton, : McLean, VA	10.191	-		-		-		-		-	0.000	10.191	0.000
JLTV Contract Service Support for Cost Analysis for JLTV CARD	SS/CPFF	Camber Corporation, : Huntsville, AL	0.591	-		-		-		-		-	0.000	0.591	0.000
JLTV Service Support	MIPR	US Army Combined Arms Support Commands - CASCOM, : Ft. Lee, VA	0.200	-		-		-		-		-	0.000	0.200	0.000
Subtotal			10.982	-		-		-		-		-	0.000	10.982	0.000
Remarks															
Funding for Management Services has shifted from RDT&E to procurement.															
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Live Fire Test Assets and Support	C/FFP	Oshkosh Corporation : Oshkosh, WI	5.708	13.383	Dec 2016	4.121		2.609	Dec 2018	-		2.609	Continuing	Continuing	Continuing
Science and Technology Updates	C/TBD	To Be Determined : To Be Determined	0.000	-		-		5.677	Jul 2018	-		5.677	0.000	5.677	0.000
Subtotal			5.708	13.383		4.121		8.286		-		8.286	-	-	-
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. U.S. Army under PE 0605812A, Project VU9, and the U.S. Marine Corps under PE 0605812M, Project 3209. The LRIP/FRP contract awarded in FY15 has a cost sharing agreement between the services to cover shared RDT&E funded test activities. Funding for Live Fire Test Assets decreases as Live Fire Testing is completed and the program moves toward a Full Rate Program (FRP) decision.															

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Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605812A / Joint Light Tactical Vehicle - ED				Project (Number/Name) VU9 / Joint Light Tactical Vehicle - ED					
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Light Tactical Vehicles (JLTV) Program Management Support	Various	TACOM Life Cycle Management Command (LCMC), : Harrison Township, MI	24.473	3.159	Sep 2016	2.046		1.432	Sep 2018	-		1.432	Continuing	Continuing	Continuing
GFE Management / GFE / Analysis	MIPR	Various : TBD	16.680	1.824	Aug 2016	-		1.500	Jul 2018	-		1.500	Continuing	Continuing	Continuing
JLTV EMD/LRIP phase.	MIPR	Tank-Automotive Reseach, Development, and Engineering Center - TARDEC : Warren, MI	14.245	-		-		-		-		-	Continuing	Continuing	Continuing
JLTV Prototype EMD/LRIP - Budget	MIPR	TACOM Life Cycle Management Command (LCMC), : Warren, MI	10.390	1.993	Apr 2016	0.150		-		-		-	Continuing	Continuing	Continuing
Subtotal			65.788	6.976		2.196		2.932		-		2.932	-	-	-
Remarks															
Funding for Support Costs decreases due to the end of the development phase as well as programmatic support shifting from RDT&E to procurement.															
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Complete Engineering and Manufacturing Development (EMD) Test - Limited User Test (LUT)	MIPR	Army Evaluation Center (AEC) : Aberdeen Proving Ground, MD	41.342	-		-		-		-		-	0.000	41.342	0.000
MOT&E and Live Fire T&E - ballistics, FUSL, AFES, Log demo and corrosion.	Various	TBD : Various	16.912	10.838	Aug 2016	5.213		12.249	Oct 2017	-		12.249	23.708	68.920	0.000
Subtotal			58.254	10.838		5.213		12.249		-		12.249	23.708	110.262	0.000

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PE 0605812A: Joint Light Tactical Vehicle - ED
 Army

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Army																Date: May 2017																				
Appropriation/Budget Activity 2040 / 5										R-1 Program Element (Number/Name) PE 0605812A / Joint Light Tactical Vehicle - ED										Project (Number/Name) VU9 / Joint Light Tactical Vehicle - ED																
Event Name	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022											
	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								
Test Vehicles and LRIP Contract																																				
Full Up Systems Level (FUSL) Test																																				
Logistics Demonstration																																				
Multi-Service Operational Test and Evaluation (MOT&E)																																				
(1) Full-Rate Production (FRP) Decision																																				
(2) Army Initial Operating Capability (IOC)																																				

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army			Date: May 2017
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605812A / <i>Joint Light Tactical Vehicle - ED</i>	Project (Number/Name) VU9 / <i>Joint Light Tactical Vehicle - ED</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Test Vehicles and LRIP Contract	1	2016	1	2019
Full Up Systems Level (FUSL) Test	2	2017	1	2018
Logistics Demonstration	3	2017	4	2017
Multi-Service Operational Test and Evaluation (MOT&E)	2	2018	3	2018
Full-Rate Production (FRP) Decision	1	2019	1	2019
Army Initial Operating Capability (IOC)	1	2020	1	2020