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**Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605812M I (U) <i>Joint Light Tactical Vehicle(JLTV) EMD</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	85.930	8.970	32.149	23.197	-	23.197	7.873	2.854	2.135	0.000	0.000	163.108
3209: <i>Joint Light Tactical Vehicle</i>	85.930	8.970	32.149	23.197	-	23.197	7.873	2.854	2.135	0.000	0.000	163.108

**Program MDAP/MAIS Code:** 279

**Note**

The FY 2011 NDAA directed the Services to separate the Joint Light Tactical Vehicle (JLTV) program into distinct PEs to provide Congress with increased transparency and allow for more effective oversight. Transition of funding from PE 0603635M to the new JLTV PE 0605812M was effective beginning in FY 2013.

**A. Mission Description and Budget Item Justification**

Funding supports the development and testing of the Joint Light Tactical Vehicle (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. JLTV 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 FY 2017 budget activities include the continued monitoring of contractor performance, logistics demonstration, completion of provisioning and continued logistics publications for test, continued fabrication of Live Fire Test Assets, and the continuation of the Low-Rate Initial Production (LRIP) test program such as: Full Up System Level test, Automatic Fire Extinguishing System (AFES) test, C4I test and ballistics.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	9.445	36.656	23.614	-	23.614
Current President's Budget	8.970	32.149	23.197	-	23.197
Total Adjustments	-0.475	-4.507	-0.417	-	-0.417
• Congressional General Reductions	-	-0.007			
• Congressional Directed Reductions	-	-4.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.154	0.000			
• SBIR/STTR Transfer	-0.321	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.417	-	-0.417

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<b>Change Summary Explanation</b> The funding decrease from FY 2016 to FY 2017 (\$8.952M) is due to the completion of procurement of live fire test assets and Government Furnished Equipment (GFE).		

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD				<b>Project (Number/Name)</b> 3209 / Joint Light Tactical Vehicle			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3209: <i>Joint Light Tactical Vehicle</i>	85.930	8.970	32.149	23.197	-	23.197	7.873	2.854	2.135	0.000	0.000	163.108
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

The FY 2017 funding request was reduced by \$4.247 million to account for the availability of prior year execution balances.

**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. JLTV 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 FY17 budget activities include the continued monitoring of contractor performance, logistics demonstration, completion of provisioning and continued logistics publications for test, continued fabrication of Live Fire (LF) Test Assets, and the continuation of the Low-Rate Initial Production (LRIP) test program such as: Full Up System Level (FUSL) test, Automatic Fire Extinguishing System (AFES) test, C4I test, and ballistics.

The funding decrease from FY 2016 to FY 2017 (\$8.952M) is due to the completion of procurement of live fire test assets and Government Furnished Equipment (GFE).

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> Live Fire Test Assets	4.280	5.456	4.074	0.000	4.074
<b>Articles:</b>	8	1	-	-	-
<b>Description:</b> Contract and support for development and fabrication of LF Test Assets					
<b>FY 2015 Accomplishments:</b> -Awarded LRIP, procured Live Fire (LF) test assets. Assets will be destroyed during testing.					
<b>FY 2016 Plans:</b> -Complete efforts in support of the fabrication of LF test assets that will be destroyed during testing and continue Field Service Representative support for LF testing.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD	<b>Project (Number/Name)</b> 3209 / Joint Light Tactical Vehicle

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<p>-Continue vendor RDT&amp;E activity on the LRIP contract.</p> <p><b>FY 2017 Base Plans:</b></p> <p>-Continue vendor efforts in support of LF testing.</p> <p>-Continue vendor RDT&amp;E activity on the LRIP contract.</p> <p>-Continue logistics support of Government Furnished Equipment (GFE) that will be required for LF test events.</p> <p>-Funding decrease between FY16 and FY17 is a result of a reduction in vendor test support requirements in accordance with the JLTV test plan.</p> <p><b>FY 2017 OCO Plans:</b></p> <p>N/A</p>					
<p><b>Title:</b> Product Development Systems Engineering</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2015 Accomplishments:</b></p> <p>-Completed the systems engineering evaluation of human systems integration of the three EMD vendor designs.</p> <p><b>FY 2016 Plans:</b></p> <p>N/A</p> <p><b>FY 2017 Base Plans:</b></p> <p>N/A</p> <p><b>FY 2017 OCO Plans:</b></p> <p>N/A</p>	0.185	0.000	0.000	0.000	0.000
	-	-	-	-	-
<p><b>Title:</b> GFE, ILS, Facilities Documentation/Analysis and Support Engineering</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2015 Accomplishments:</b></p> <p>-Initiated logistics support.</p> <p>-Initiated the development of logistics documentation and oversight of programmatic and contractual issues related to logistics, and procurement of GFE which will be destroyed during testing.</p> <p><b>FY 2016 Plans:</b></p>	1.058	5.100	0.000	0.000	0.000
	-	-	-	-	-



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<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD	<b>Project (Number/Name)</b> 3209 / Joint Light Tactical Vehicle
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>-Completed EMD phase to include program management, level of effort reports, test and evaluation analysis, integrated logistics support for test events, GFE management, close out of the EMD contract, and preparation of analysis and documentation in support of MS C and LRIP source selection.</p> <p><b>FY 2016 Plans:</b> -Initiate support for LRIP activity to include program management for test events, GFE management, monitoring and execution of the LRIP contract, and monitoring of vendor performance during LF testing.</p> <p><b>FY 2017 Base Plans:</b> -Continue support for LRIP activity such as program management for test events, GFE management, monitoring and execution of the LRIP contract, and monitoring of vendor performance during LF testing. -The funding decrease from FY16 to FY17 reflects the reduced RDT&amp;E funded support requirements as a result of decreased test scope in accordance with the JLTV Test Plan. Test activities include LF Test, Multi-Service Operational Test and Evaluation (MOT&amp;E), and logistics demonstration.</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	8.970	32.149	23.197	0.000	23.197

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• PMC/5095: 0206211M- JLTV	7.425	59.954	113.230	-	113.230	421.660	668.830	681.183	98.994	155.456	2,206.732
• OPA/D15603: JLTV (Army)	164.615	249.911	594.688	-	594.688	837.043	1,092.066	1,113.019	1,149.424	Continuing	Continuing
• RDTEA/VU9: 0605812A-JLTV (Army)	45.694	32.486	11.877	-	11.877	3.213	3.085	3.143	2.141	Continuing	Continuing

**Remarks**  
Joint Program Live Fire Test Asset/LRIP contract awarded 25 Aug 2015.

**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.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD	<b>Project (Number/Name)</b> 3209 / Joint Light Tactical Vehicle
<p>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. The JLTV JPO 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 as well as spares. On 8 September 2015, a Stop Work Order was issued to Oshkosh after a protest was filed to the Government Accountability Office (GAO). On 15 December 2015, the GAO dismissed the protest due to the protester's decision to file a Notice of Post-Award Bid Protest with the US Court of Federal Claims. The Stop Work Order was officially canceled and Oshkosh has resumed work. JPO JLTV is currently evaluating potential protest impacts.</p> <p>The program now begins the LRIP phase where it will strive 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 smoothly transition into FRP.</p> <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><b><u>E. Performance Metrics</u></b> Milestone Reviews</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 4				PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD					3209 / Joint Light Tactical Vehicle						
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Systems Engineering - Human Systems Integration	WR	NSWC : Dahlgren, VA	1.350	0.185	Nov 2014	0.000		0.000		-		0.000	0.000	1.535	-
Prior Years Cumulative Funding	Various	Various : Various	36.818	0.000		0.000		0.000		-		0.000	0.000	36.818	-
Live Fire Test Assets	C/FFP	Oshkosh : Oshkosh, WI	0.000	4.280	Aug 2015	5.456	Feb 2016	4.074	Dec 2016	-		4.074	5.751	19.561	Continuing
<b>Subtotal</b>			38.168	4.465		5.456		4.074		-		4.074	5.751	57.914	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Integrated Logistics Support	Various	Various : Various	0.643	0.000		0.000		0.000		-		0.000	0.000	0.643	-
SPAWAR GFE Management	MIPR	SPAWAR : Charleston, SC	0.341	0.000		0.000		0.000		-		0.000	0.000	0.341	-
Manpower, Personnel, Training	C/FFP	A. Harold & Assoc. : Quantico, VA	0.430	0.430	Sep 2015	0.000		0.000		-		0.000	0.000	0.860	-
Corrosion Impact Mitigation & Analysis	C/FFP	JHU : Baltimore, MD	1.434	0.000		0.000		0.000		-		0.000	0.000	1.434	-
GFE	Various	Various : Various	0.000	0.628	Sep 2015	5.100	Mar 2016	0.000		-		0.000	0.000	5.728	-
<b>Subtotal</b>			2.848	1.058		5.100		0.000		-		0.000	0.000	9.006	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Developmental Test & Evaluation (Performance, RAM, Ballistic, Report Generation)	MIPR	Govt Proving Grounds : Aberdeen, MD	6.576	0.000		1.722	Jan 2016	0.000		-		0.000	0.000	8.298	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy** **Date:** February 2016

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<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (Performance, RAM, Ballistic, Report Generation)	MIPR	Govt Proving Grounds : Yuma, AZ	14.813	0.000		4.147	Apr 2016	0.000		-		0.000	0.000	18.960	-
Developmental Test & Evaluation (Performance, RAM, Ballistic, Report Generation)	MIPR	Govt Proving Grounds : Various	7.029	0.000		3.350	Apr 2016	1.513	Apr 2017	-		1.513	0.000	11.892	-
Operational Testing (Planning, Conduct, Evaluation and Report Generation)	MIPR	Govt Proving Grounds : Various	3.165	0.000		4.988	Apr 2016	14.018	Apr 2017	-		14.018	2.118	24.289	-
Developmental Test & Evaluation (Oversight)	WR	MCOTEA : Quantico, VA	0.776	0.000		0.200	Jan 2016	0.000		-		0.000	0.000	0.976	-
Live Fire Test & Evaluation	MIPR	Govt Proving Grounds : Aberdeen, MD	0.000	2.061	Feb 2015	5.053	Apr 2016	2.337	Apr 2017	-		2.337	0.000	9.451	-
<b>Subtotal</b>			32.359	2.061		19.460		17.868		-		17.868	2.118	73.866	-

<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	C/CPFF	BAH : McLean, VA	9.739	1.090	Jan 2015	0.000		0.000		-		0.000	0.000	10.829	-
Program Management Support	C/CPFF	Kalman, Inc : Virginia Beach, VA	0.000	0.000		2.033	Jan 2016	1.155	Dec 2016	-		1.155	0.782	3.970	-
Program Management Support	C/CPFF	Various : Various	1.340	0.000		0.000		0.000		-		0.000	0.000	1.340	-
Program Management Support	C/CPFF	CECOM/MITRE : Aberdeen Proving Ground, MD	1.053	0.000		0.000		0.000		-		0.000	0.000	1.053	-





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0605812M / (U)Joint Light Tactical Vehicle(JLTV) EMD	<b>Project (Number/Name)</b> 3209 / Joint Light Tactical Vehicle

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3209</b>				
EMD Contract (Contract Awarded 4Q FY12)	1	2015	1	2015
EMD Government Test Program and Reporting	1	2015	2	2015
Milestone C Preparation	1	2015	4	2015
LRIP Source Selection Evaluation Board	2	2015	4	2015
Milestone C Decision	4	2015	4	2015
Live Fire Test Assets and LRIP Contract Award	4	2015	4	2015
Test Vehicles and LRIP Contract	2	2016	2	2019
Full Rate Production Decision	1	2019	1	2019
Marine Corps Initial Operational Capability	2	2019	2	2019