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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>							
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	2.838	5.477	3.077	-	3.077	22.373	7.411	3.984	4.034	Continuing	Continuing
659: <i>FAMILY OF HVY TAC VEH</i>	1.494	-	0.050	-	0.050	18.431	3.500	-	-	Continuing	Continuing
65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>	1.092	1.489	-	-	-	-	-	-	-	Continuing	Continuing
E50: <i>TRAILER DEVELOPMENT</i>	0.252	1.994	-	-	-	-	-	-	-	Continuing	Continuing
VR5: <i>TWV PROTECTION KITS</i>	-	1.994	3.027	-	3.027	3.942	3.911	3.984	4.034	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element aligns system development and demonstration of Heavy Tactical Vehicles with Future Modular Force requirements to support combat and combat support missions. These missions include the following: line haul, local haul, and unit resupply. These trucks transport water, ammunition, and general cargo over all terrain and throughout the battle-space. Funding will also be used for developing the Army's next generation of tactical truck, as part of the Army's Tactical Wheeled Vehicle Modernization Strategy. Funding in Project 65A is for the development of the Movement Tracking System (MTS). Funding in Project E50 supports the continued modernization of the Army's trailer fleets and supports the continuous product improvements, technology insertion, and new capabilities for tactical trailers. Funding in Project VR5 supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles as described in the Long Term Protection Strategy.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	3.519	5.478	3.591	-	3.591
Current President's Budget	2.838	5.477	3.077	-	3.077
Total Adjustments	-0.681	-0.001	-0.514	-	-0.514
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.548	-	-0.548
• Other Adjustments 1	-0.681	-0.001	0.034	-	0.034

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Exhibit R-2A, RDT&E Project 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT 659: <i>FAMILY OF HVY TAC VEH</i>			
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
659: <i>FAMILY OF HVY TAC VEH</i>	1.494	-	0.050	-	0.050	18.431	3.500	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note
Not applicable for this item.

A. Mission Description and Budget Item Justification
Not applicable for this item.

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: FHTV Technology Insertion Articles:	1.494 0	-	-	-	-
Description: FHTV Technology Insertion FY 2011 Accomplishments: Continuation of HTV's research and evaluate vehicle technology insertion candidates on HTV vehicle platforms to improve vehicle reliability, maintainability, safety, and efficiency. Incorporate vehicle change through an Engineering Change Proposal (ECP) process into FHTV production vehicles.					
Title: Program Support Description: Program support.	-	-	0.050	-	0.050
FY 2013 Base Plans: Funds will provide program support to the Heavy Tactical Vehicles family.					
Accomplishments/Planned Programs Subtotals	1.494	-	0.050	-	0.050

C. Other Program Funding Summary (\$ in Millions)

Line Item	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
• Family of Heavy Tactical Vehicles: <i>Family of Heavy Tactical Vehicles (FHTV) DA0500</i>	549.741	645.008	52.933	2.050	54.983		13.847	28.069	30.998	Continuing	Continuing

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Exhibit R-2A, RDT&E Project 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT 659: <i>FAMILY OF HVY TAC VEH</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Truck, Dump: <i>Truck, Dump, 20T D16001</i>							0.014	24.177	49.194	Continuing	Continuing
D. Acquisition Strategy Funds will provide program management support to the Family of Heavy Tactical Vehicles.											
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		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles				PROJECT 659: FAMILY OF HVY TAC VEH					
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
FHTV Technology Insertion	SS/CPFF	Oshkosh Truck Corporation:Oshkosh, WI	5.699	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			5.699	-		-		-		-			
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
Program Support	MIPR	TACOM:Warren, MI	-	-		0.050		-		0.050	Continuing	Continuing	Continuing
Subtotal			-	-		0.050		-		0.050			
			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			5.699	-		0.050		-		0.050			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					PROJECT			
2040: Research, Development, Test & Evaluation, Army					PE 0604622A: Family of Heavy Tactical Vehicles					659: FAMILY OF HVY TAC VEH			
BA 5: Development & Demonstration (SDD)													

	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
FHTV Technology Insertion																												
Program Management																												

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Exhibit R-4A, RDT&E Schedule Details: 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT 659: <i>FAMILY OF HVY TAC VEH</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FHTV Technology Insertion	3	2011	4	2012
Program Management	1	2013	4	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				PE 0604622A: Family of Heavy Tactical Vehicles				65A: MOVEMENT TRACKING SYSTEM (MTS)			
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
65A: MOVEMENT TRACKING SYSTEM (MTS)	1.092	1.489	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Testing includes Information Assurance (IAVA), penetration testing, etc.

A. Mission Description and Budget Item Justification

Movement Tracking System (MTS) is a satellite based, asset visibility and situational awareness enabler that assists Combat Support/Combat Service Support (CS/CSS) commanders and their staffs. MTS identifies and tracks the location of vehicles, communicates with vehicle operators, and redirects missions on a worldwide, near real-time basis during peacetime operations and war. MTS provides the capability to link ground level operators conducting missions and commanders/managers that plan, direct, and control operations and allows for continuous CS/CSS asset visibility across the tactical area of operations. FY08/09 funding supported development of block modifications on the MTS. This block modification will develop and test interfaces to the Transportation Coordinator's Automated Information for Movement System (TC AIMS II) and Global Combat Support System-Army (GCCS-Army). FY12 funding continues interface development & testing.

There is no FY13 Base or OCO funding for this project. The MTS program is being converged into the PM FBCB2 Joint Battle Command-Platform (JBC-P), as 'JBC-P Log'.

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Movement Tracking System (MTS)	0.942	0.879	-	-	-
Articles:	0	0			
Description: Funding is provided for the following effort					
FY 2011 Accomplishments: Continuous improvements to system.					
FY 2012 Plans: Will continue to provide improvements to the system					
Title: System Testing	0.150	0.610	-	-	-
Articles:	0	0			
Description: Funding is provided for the following effort					

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Exhibit R-2A, RDT&E Project 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>		PROJECT 65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>	

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 2011 Accomplishments:</i> Continued System Testing <i>FY 2012 Plans:</i> Testing includes Information Assurance (IAVA) testing, penetration testing, etc.					
Accomplishments/Planned Programs Subtotals	1.092	1.489	-	-	-

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</u>	<u>Total Cost</u>
• D16103: <i>Movement Tracking System (MTS)</i>	93.736	52.554								Continuing	Continuing

D. Acquisition Strategy RDTE efforts to support block development approach through a continuous series of overlapping modular development and integration testing to include multiple interface developments in support of follow-on production.
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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		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT 65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>					

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
Software development, engineering, testing, program management	C/FP	Comtech Mobile Datacom Corp:Germantown, MD	14.751	1.339		-		-		-	Continuing	Continuing	Continuing
Subtotal			14.751	1.339		-		-		-			

Remarks
 Due to transfer of Movement Tracking System (MTS) from Program Executive Office Enterprise Information Systems (PEO EIS) to Program Executive Office for Command, Control and Communications - Tactical (PEO C3T), there was a change in the acquisition strategy. In lieu of a planned full and open competition, remaining hardware components and services will be purchased from DRS Tactical Systems, Inc.(under a GSA contract), Comtech Mobile Datacom Corporation (CMDC) and Engineering Solutions and Products, Inc. (ESP), under Force XXI Battle Command-Brigade-and-Below (FBCB2) contract.

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
Software Testing	TBD	TBD:TBD	3.238	0.150		-		-		-	Continuing	Continuing	Continuing
Subtotal			3.238	0.150		-		-		-			

Remarks
 Prototype testing.

			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			17.989	1.489		-		-		-			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE		PROJECT	
2040: Research, Development, Test & Evaluation, Army		PE 0604622A: Family of Heavy Tactical Vehicles		65A: MOVEMENT TRACKING SYSTEM (MTS)	
BA 5: Development & Demonstration (SDD)					

	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
MTS Full Deployment																												
Sustainment																												

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Exhibit R-4A, RDT&E Schedule Details: 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT 65A: <i>MOVEMENT TRACKING SYSTEM (MTS)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MTS Full Deployment	4	2013	4	2013
Sustainment	2	2011	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles				PROJECT E50: TRAILER DEVELOPMENT			
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
E50: TRAILER DEVELOPMENT	0.252	1.994	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
This program element supports continued modernization of the Army's trailer fleet. The FY 2012 funds support tire improvement efforts intended to extend the life of the tire. FY 2012 funding will compare capabilities of the current M1000 Trailer to Objective Requirements, perform capability gap analysis, market surveys and propose concept trailers to meet future objective requirements. Modernized trailers are better able to match the capabilities of today's improved tactical wheeled vehicles and tractors.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Program Management							0.252	-	-	-	-
Articles:							0				
Description: Program Management											
FY 2011 Accomplishments:											
Funds will provide Program Management to support the system											
Title: Tire Improvement and Next Generation Trailer Study.							-	1.994	-	-	-
Articles:								0			
Description: Funding is provided for the following efforts.											
FY 2012 Plans:											
The tire improvement effort is to improve wear and identify aging characteristics will be used to improve future tires. The Next Generation Heavy Trailer Study will compare capabilities of the current M1000 Trailer to Objective Requirements, perform capability gap analysis, market surveys and propose concept trailers to meet future objective requirements. Modernized trailers are better able to match the capabilities of today's improved tactical wheeled vehicles and tractors.											
Accomplishments/Planned Programs Subtotals							0.252	1.994	-	-	-

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Exhibit R-2A, RDT&E Project 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT E50: <i>TRAILER DEVELOPMENT</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• Semi-Trailer Flatbed 40T		0.596	7.097		7.097					Continuing	Continuing
M870A1: <i>Semi-Trailer Flatbed 40T</i>											
M870A1 SSN D00700											
D. Acquisition Strategy											
Research, development, test, and evaluation efforts to support design, development and build of system trailer improvements.											
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			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604622A: <i>Family of Heavy Tactical Vehicles</i>				PROJECT E50: <i>TRAILER DEVELOPMENT</i>					

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
Program Management	MIPR	TACOM:Warren, MI	3.545	-		-		-		-	Continuing	Continuing	Continuing
Tire Improvement	MIPR	TARDEC:Warren, MI	2.399	1.500		-		-		-	Continuing	Continuing	Continuing
Next Generation Heavy Trailer Study	C/CPFF	Omnibus Contractor:TBD	-	0.494		-		-		-	Continuing	Continuing	Continuing
Subtotal			5.944	1.994		-		-		-			

	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	5.944	1.994	-	-	-			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army																DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY								R-1 ITEM NOMENCLATURE								PROJECT			
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)								PE 0604622A: Family of Heavy Tactical Vehicles								E50: TRAILER DEVELOPMENT			

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Exhibit R-4A, RDT&E Schedule Details: 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT E50: <i>TRAILER DEVELOPMENT</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Tire Improvement	3	2012	4	2013
Next Generation Heavy Trailer Study	3	2012	1	2014

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles				PROJECT VR5: TWV PROTECTION KITS			
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
VR5: TWV PROTECTION KITS	-	1.994	3.027	-	3.027	3.942	3.911	3.984	4.034	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
This program element supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles (HTV) as described in the Long Term Protection Strategy. The upgrades will leverage from Army Technology Objective's (ATO) survivability and Army Research Laboratory's (ARL) research and development activities to develop and evaluate kits to adapt and anticipate changing threat environments, protection gaps, or improve the operating performance, efficiency, and reliability of HTV systems with protection kits installed by application of weight reduction technology.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Armor Analysis of Alternatives Articles: Description: Armor Analysis of Alternatives FY 2012 Plans: Perform engineering analysis and present design concepts for an armor solution.							-	0.1570	-	-	-
Title: Design and Build Armor Kits. Articles: Description: Design and build prototype kits for the Heavy Tactical Vehicle systems. FY 2012 Plans: Design and build prototype kits that represent production alternatives in terms of form, fit, and function sufficient to validate the required protection levels and kit interface to the vehicle platform.							-	1.0800	-	-	-
Title: Vulnerability Modeling and Simulation Articles: Description: Vulnerability Modeling and Simulation FY 2012 Plans:							-	0.1070	-	-	-

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles	PROJECT VR5: TWV PROTECTION KITS				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Vulnerabiity analysis will provide the AEC evaluator with potential vulnerabiities in armor design. Will support a safety confirmation and materiel release.						
Title: Survivability Modeling and Simulation Articles: Description: Modeling and Simulation to predict survivability performance of the armor design. FY 2012 Plans: Modeling and Simulation to predict survivability performance of the armor design.		-	0.250 0	-	-	-
Title: Test and Evaluation. Description: Funding is provided for the following effort. FY 2013 Base Plans: Continuation of test and evaluation of Tactical Wheel Vehicle protection kits. It consists of ballistic evaluations, automotive performance, and durability mileage sufficient to assess kit performance against established vehicle and ballistic requirements. Testing will determine capabilities and limitations of the protection kit integration onto the vehicle platform.		-	-	2.427	-	2.427
Title: Program Management Articles: Description: Funding is provided for program managment heavy tactical office support. FY 2012 Plans: Program Managment support FY 2013 Base Plans: Program Management support		-	0.400 0	0.600	-	0.600
Accomplishments/Planned Programs Subtotals		-	1.994	3.027	-	3.027

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles				PROJECT VR5: TWV PROTECTION KITS			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• 005: Family of Heavy Tactical Vehicles (FHTV) (DA0500)	738.418	674.508	52.207	2.050	54.257		39.554	27.648	30.523	Continuing	Continuing
• 003: Family of Medium Tactical Vehicles (FMTV) (D15500)	1,434.545	444.030	425.941	28.247	454.188		410.123	508.327	539.275	Continuing	Continuing
• 000: Tactical Wheeled Protection Kits - D04003		39.908	69.163		69.163		126.264	149.768	145.431	Continuing	Continuing
D. Acquisition Strategy											
FY12 funds are expected to be executed via Military Interdepartmental Purchase Request (MIPR) to Army Research Laboratory (ARL). Armor kit design will use a pre-existing contract with Oshkosh Truck Corporation.											
FY13 funds are expected to be executed via Military Interdepartmental Purchase Requests (MIPRs) to TARDEC, and government test centers, such as, Army Evaluation Center (AEC), Operational Test Center (OTC), and Army Test Eval Center (ATEC). Live Fire testing, Automotive, Operational and Shaker testing are planned.											
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			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604622A: Family of Heavy Tactical Vehicles				PROJECT VR5: TWV PROTECTION KITS					
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
Analysis of Alternatives/ Design and Build Armor Kits	SS/CPFF	OshKosh Truck Corporation:OshKosh, WI	-	1.237		-		-		-	Continuing	Continuing	Continuing
Vulnerability Modeling and Simulation	MIPR	Army Research Lab:Adelphi, MD	-	0.107		-		-		-	Continuing	Continuing	Continuing
Survivability Modeling & Simulation	MIPR	TARDEC:Warren, MI	-	0.250		-		-		-	0.000	0.250	0.000
Subtotal			-	1.594		-		-		-			
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
Program Support	MIPR	TACOM:Warren, MI	-	0.400		0.600		-		0.600	0.000	1.000	0.000
Subtotal			-	0.400		0.600		-		0.600	0.000	1.000	0.000
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
Test and Evaluation	MIPR	Various Locations:Various Locations	-	-		2.427		-		2.427	Continuing	Continuing	Continuing
Subtotal			-	-		2.427		-		2.427			
			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			-	1.994		3.027		-		3.027			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>						PROJECT VR5: <i>TWV PROTECTION KITS</i>			

	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
Armor Analysis of Alternatives																												
Design and Build Armor Kits																												
Vulnerability Model & Simulation																												
Survivability Model & Simulation																												
Test and Evaluation																												
Program Support																												

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Exhibit R-4A, RDT&E Schedule Details: 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 0604622A: <i>Family of Heavy Tactical Vehicles</i>	PROJECT VR5: <i>TWV PROTECTION KITS</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Armor Analysis of Alternatives	2	2012	3	2012
Design and Build Armor Kits	2	2012	2	2013
Vulnerability Model & Simulation	4	2012	1	2013
Survivability Model & Simulation	2	2012	2	2013
Test and Evaluation	1	2013	4	2013
Program Support	2	2012	4	2013