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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604604A / Medium Tactical Vehicles
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	2.068	0.210	-	-	-	0.170	0.112	-	-	Continuing	Continuing
H07: Family Of Med Tac Veh	-	2.068	0.210	-	-	-	0.170	0.112	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) supports continued modernization of the Army's medium truck and trailer fleet and the Armored Security Vehicle (ASV).

In the medium fleet, the Family of Medium Tactical Vehicles (FMTV) replaces aging M35 2 1/2-ton trucks, and M809 and M900 Series 5-ton trucks that are beyond their economic useful life of 15-20 years. FMTV fills 2 1/2-ton Light Medium Tactical Vehicle (LMTV) and 5-ton truck Medium Tactical Vehicle (MTV) requirements, and includes companion trailers, performing over 55 percent of the Army's local and line haul, and unit resupply missions, and operates throughout the theater as multi-purpose transportation vehicles in combat, combat support, and combat service support units.

The ASV is an all-wheel drive armored vehicle that provides ballistic protection, overhead protection, and protection against landmines. It is used by the Military Police to perform missions of area security, maneuver, and mobility support.

This PE funds government technical insertion initiatives that will feed into implementation of the Tactical Wheeled Vehicle (TWV) Modernization Strategy and the TWV Armoring Strategy as a bridge to future tactical vehicle efforts. This PE allows the Project Manager (PM) to leverage technology and address capability gaps in performance and reliability as identified by the user community and reported in the field.

The FY16 funding request was reduced for \$0.141 million to account for the availability of prior year execution balances.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	2.139	0.210	0.282	-	0.282
Current President's Budget	2.068	0.210	-	-	-
Total Adjustments	-0.071	-	-0.282	-	-0.282
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-0.071	-	-0.282	-	-0.282

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604604A / Medium Tactical Vehicles				Project (Number/Name) H07 / Family Of Med Tac Veh			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
H07: Family Of Med Tac Veh	-	2.068	0.210	-	-	-	0.170	0.112	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Not Applicable.

A. Mission Description and Budget Item Justification

This Program Element (PE) supports continued modernization of the Army's medium truck and trailer fleet and the Armored Security Vehicle (ASV).

In the medium fleet, the Family of Medium Tactical Vehicles (FMTV) replaces aging M35 2 1/2-ton trucks, and M809 and M900 Series 5-ton trucks that are beyond their economic useful life of 15-20 years. FMTV fills 2 1/2-ton Light Medium Tactical Vehicle (LMTV) and 5-ton truck Medium Tactical Vehicle (MTV) requirements, and includes companion trailers, performing over 55 percent of the Army's local and line haul, and unit resupply missions, and operates throughout the theater as multi-purpose transportation vehicles in combat, combat support, and combat service support units.

The ASV is an all-wheel drive armored vehicle that provides ballistic protection, overhead protection, and protection against landmines. It is used by the Military Police to perform missions of area security, maneuver, and mobility support.

This PE funds government technical insertion initiatives that will feed into implementation of the Tactical Wheeled Vehicle (TWV) Modernization Strategy and the TWV Armoring Strategy as a bridge to future tactical vehicle efforts. This PE allows the PM to leverage technology and address capability gaps in performance and reliability as identified by the user community and reported in the field. FY17-18 RDT&E funding will be used to continue Technological Evaluation, Testing and Insertion of the FMTV.

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Automotive Technological Evaluation, Testing & Insertion	0.749	0.082	-	-	-
Description: Funding is provided for the following effort					
FY 2014 Accomplishments: Continuation with FMTV Automotive Technological Evaluation, Testing & Insertion					
FY 2015 Plans: Continuation with FMTV Automotive Technological Evaluation, Testing, & Insertion					
Title: Armor Spiral Development	0.613	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)											
				FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total			
Description: Funding is provided for the following effort											
FY 2014 Accomplishments: Improvements to occupant survivability											
Title: Fuel Economy				0.706	-	-	-	-			
Description: Funding is provided for the following effort											
FY 2014 Accomplishments: Continued Fuel Economy Improvements											
Title: FMTV Force Protection Improvements				-	0.128	-	-	-			
Description: Funding provided for the following effort:											
FY 2015 Plans: Improvements to occupant survivability.											
Accomplishments/Planned Programs Subtotals				2.068	0.210	-	-	-			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• OPA 1 D15500: <i>Family of Medium Tactical Vehicles D15500</i>	305.650	195.624	90.040	243.998	334.038	192.812	210.923	247.798	247.798	Continuing	Continuing
Remarks											
D. Acquisition Strategy FMTV - Technological Evaluation, Testing and Insertion efforts will be accomplished by a Cost Plus Fixed Fee (Level of Effort) basis.											
E. Performance Metrics N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604604A / <i>Medium Tactical Vehicles</i>				Project (Number/Name) H07 / <i>Family Of Med Tac Veh</i>					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
FMTV Automotive Technological Evaluation and Insertion	C/CPFF	Oshkosh Truck Corporation : Oshkosh, WI	10.470	0.749	Mar 2014	-		-		-		-	Continuing	Continuing	Continuing
FMTV Armor Spiral Development	C/CPFF	Oshkosh Truck Corporation : Oshkosh, WI	4.851	0.613	Mar 2014	-		-		-		-	Continuing	Continuing	Continuing
FMTV Fuel Economy	C/CPFF	Oshkosh Truck Corporation : Oshkosh, WI	1.916	0.706	Mar 2014	-		-		-		-	Continuing	Continuing	Continuing
FMTV Automotive Technological Evaluation and Insertion	C/CPFF	TBD : TBD	0.082	-		0.082		-		-		-	Continuing	Continuing	Continuing
FMTV Force Protection Improvements	C/CPFF	TBD : TBD	0.128	-		0.128		-		-		-	Continuing	Continuing	Continuing
ASV Mission Enhancement Package (MEP)	MIPR	Various Locations : Various Locations	1.844	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			19.291	2.068		0.210		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
FMTV Automotive Technological Evaluation and Insertion	Various	Various : Various	0.351	-		-		-		-		-	Continuing	Continuing	Continuing
FMTV Armor Spiral Development Testing	MIPR	TARDEC : Warren, MI	0.319	-		-		-		-		-	Continuing	Continuing	Continuing
FMTV Fuel Economy Testing	MIPR	TARDEC : Warren, MI	0.319	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.989	-		-		-		-		-	-	-	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army										Date: February 2015				
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	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	20.280	2.068		0.210		-		-		-	-	-	-	
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army	Date: February 2015
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604604A / <i>Medium Tactical Vehicles</i>	Project (Number/Name) H07 / <i>Family Of Med Tac Veh</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
FMTV Technology Insertion	Technology Insertion																											
FMTV Armor Technology Insertion	Technology Insertion																											
FMTV Fuel Economy	Fuel Economy																											
FMTV Force Protection Improvements					Force Prot																							
FMTV Competitive Rebuy & Follow-on Production	Competitive Rebuy & Follow-on Production																											
FMTV FY16-20 Competition													FY16-20															

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FMTV Technology Insertion	1	2008	4	2015
FMTV Armor Technology Insertion	1	2010	4	2015
FMTV Fuel Economy	1	2010	4	2015
FMTV Force Protection Improvements	2	2015	4	2015
FMTV Competitive Rebuy & Follow-on Production	2	2010	4	2016
FMTV FY16-20 Competition	2	2016	4	2020