

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604604A: <i>MEDIUM TACTICAL VEHICLES</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	5.460	3.710	3.961	-	3.961	3.974	3.878	3.901	4.707	Continuing	Continuing
H07: <i>FAMILY OF MED TAC VEH</i>	5.460	3.710	3.961	-	3.961	3.974	3.878	3.901	4.707	Continuing	Continuing

Note

FY 2012: Funds realigned to higher priority requirements.

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, police intelligence, and law and order across the entire operational continuum. It is also being used as a Convoy Protection Platform for Combat Support and Combat Service Support units. 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. FY12-16 funding will be used to continue Technology Insertion and address field issues requiring RDT&E funds and will be used to increase protection and survivability of the FMTV through continued development and integration of armor enhancements and applications. ASV funds will be used to develop a Military Police Non-Lethal A-Kit to accept a Non-Lethal Mission Enhancement Package.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	5.683	3.710	5.742	-	5.742
Current President's Budget	5.460	3.710	3.961	-	3.961
Total Adjustments	-0.223	-	-1.781	-	-1.781
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.223	-			
• Adjustments to Budget Years	-	-	-1.781	-	-1.781

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604604A: MEDIUM TACTICAL VEHICLES				PROJECT H07: FAMILY OF MED TAC VEH			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
H07: FAMILY OF MED TAC VEH	5.460	3.710	3.961	-	3.961	3.974	3.878	3.901	4.707	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, police intelligence, and law and order across the entire operational continuum. It is also being used as a Convoy Protection Platform for Combat Support and Combat Service Support units. 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. FY12-16 funding will be used to continue Technology Insertion and address field issues requiring RDT&E funds and will be used to increase protection and survivability of the FMTV through continued development and integration of armor enhancements and applications. ASV funds will be used to develop a Military Police Non-Lethal A-Kit to accept a Non-Lethal Mission Enhancement Package.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Automotive Technological Evaluation, Testing & Insertion Articles: Description: Funding is provided for the following effort FY 2010 Accomplishments: Funded FMTV Automotive Technological Evaluation, Testing & Insertion FY 2011 Plans: Continued with FMTV Automotive Technological Evaluation, Testing & Insertion FY 2012 Base Plans:							0.282	2.740	1.057	-	1.057
							0	0			

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army				DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604604A: MEDIUM TACTICAL VEHICLES		PROJECT H07: FAMILY OF MED TAC VEH		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Will continue to fund FMTV Automotive Technological Evaluation, Testing & Insertion						
Title: Suspension		0.364	-	-	-	-
Articles:		0				
Description: Funding is provided for the following effort						
FY 2010 Accomplishments: Funded FMTV Suspension						
Title: Armor Spiral Development		2.965	-	0.957	-	0.957
Articles:		0				
Description: Funding is provided for the following effort						
FY 2010 Accomplishments: Funded Armor Spiral Development						
FY 2012 Base Plans: Continued Armor Spiral Development						
Title: CAT Transmission		0.898	-	-	-	-
Articles:		0				
Description: Funding is provided for the following effort						
FY 2010 Accomplishments: Funded FMTV CAT Transmission						
Title: Fuel Economy		-	-	0.957	-	0.957
Description: Funding is provided for the following effort						
FY 2012 Base Plans: Will provide funding for FMTV Fuel Economy research						
Title: Government System Test and Evaluation		-	-	0.990	-	0.990
Description: Funding is provided for the following effort						

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army				DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604604A: <i>MEDIUM TACTICAL VEHICLES</i>		PROJECT H07: <i>FAMILY OF MED TAC VEH</i>	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<i>FY 2012 Base Plans:</i> Will fund Government System Test and Evaluation <i>Title:</i> ASV Military Police Non-Lethal Mission Enhancement Package <div style="text-align: right;"><i>Articles:</i></div> <i>Description:</i> Funding is provided for the following effort <i>FY 2010 Accomplishments:</i> Funded ASV Military Police Non-Lethal Mission Enhancement Package <i>FY 2011 Plans:</i> Will continue to fund ASV Military Police Non-Lethal Mission Enhancement Package	0.951 0	0.970 0	-	-	-
Accomplishments/Planned Programs Subtotals	5.460	3.710	3.961	-	3.961

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• D15500: <i>Family of Medium Tactical Vehicles</i>	1,344.321	1,434.546	432.936	11.094	444.030		527.582	520.801	699.931	0.000	5,384.720
• D02800: <i>Armored Security Vehicle</i>	161.390	167.258								0.000	328.648

D. Acquisition Strategy

FMTV - Technological insertion will be accomplished by a Fixed Price or Cost Plus Fixed Fee (Level of Effort) basis.

ASV - The Mission Enhancement Package (MEP) effort will be completed by TARDEC on a level of effort basis.

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.

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				PE 0604604A: MEDIUM TACTICAL VEHICLES				H07: FAMILY OF MED TAC VEH					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
FMTV Suspension	Various	Various:Various	-	-		-		-		-	Continuing	Continuing	Continuing
FMTV Automotive Technological Evaluation and Insertion	Various	Various:Various	5.696	2.740		1.057		-		1.057	Continuing	Continuing	Continuing
FMTV Armor Spiral Development	Various	Various:Various	-	-		0.957		-		0.957	Continuing	Continuing	Continuing
FMTV CAT Transmission	Various	BAE Systems TVS:Various	1.132	-		-		-		-	Continuing	Continuing	Continuing
FMTV Fuel Economy	C/FP	Various:Various	-	-		0.957		-		0.957	Continuing	Continuing	Continuing
ASV Mission Enhancement Package (MEP)	TBD	TBD:TBD	-	0.970		-		-		-	Continuing	Continuing	Continuing
Subtotal			6.828	3.710		2.971		-		2.971			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
FMTV Export Power Test	TBD	TBD:TBD	0.031	-		-		-		-	Continuing	Continuing	Continuing
FMTV CAT Transmission Test	MIPR	Aberdeen Test Center:Aberdeen Test Center	-	-		-		-		-	Continuing	Continuing	Continuing
FMTV Automotive Technological Evaluation and Insertion	Various	Various:Various	-	-		0.352		-		0.352	Continuing	Continuing	Continuing
FMTV Armor Spiral Development Testing	MIPR	TARDEC:Warren, MI	-	-		0.319		-		0.319	Continuing	Continuing	Continuing
FMTV Fuel Economy Testing	MIPR	TARDEC:Warren, MI	-	-		0.319		-		0.319	Continuing	Continuing	Continuing
Subtotal			0.031	-		0.990		-		0.990			

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army						DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604604A: <i>MEDIUM TACTICAL VEHICLES</i>			PROJECT H07: <i>FAMILY OF MED TAC VEH</i>		

	Total Prior Years Cost	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.859	3.710	3.961	-	3.961			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604604A: <i>MEDIUM TACTICAL VEHICLES</i>		PROJECT H07: <i>FAMILY OF MED TAC VEH</i>	

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
ASV Mission Enhancement Package (MEP)																												
FMTV Competitive Rebuy & Follow-on Production																												

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604604A: <i>MEDIUM TACTICAL VEHICLES</i>	PROJECT H07: <i>FAMILY OF MED TAC VEH</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASV Mission Enhancement Package (MEP)	1	2010	1	2012
FMTV Competitive Rebuy & Follow-on Production	1	2010	3	2015

UNCLASSIFIED