

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2007**

<b>BUDGET ACTIVITY</b>			<b>PE NUMBER AND TITLE</b>						<b>PROJECT</b>	
<b>5 - System Development and Demonstration</b>			<b>0604604A - MEDIUM TACTICAL VEHICLES</b>						<b>H07</b>	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
H07 FAMILY OF MED TAC VEH	18006	12881	1994	1942	1811	1875	1855	1899	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This program element supports continued modernization of the vehicles chartered to PM, Medium Tactical Vehicles, including the Army's medium truck 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 20-22 years. FMTV fills 2 1/2-ton Light Medium Tactical Vehicle (LMTV) and 5-ton truck Medium Tactical Vehicle (MTV) requirements, performs over 55% 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) Transformation Strategy and the TWV Armoring Strategy, as a bridge to future tactical vehicle efforts. This PE allows the PM to leverage technology to make enhancements which improve performance and reliability in harsh mission environments as identified by the user community and reported in the field. FY08 funding will be used to continue Alternative Powertrain Technology Insertion or address field issues requiring RDT&E funds to do so.

<b><u>Accomplishments/Planned Program:</u></b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Demonstrator/Prototype Development	10094	6856		
Demonstrator/Prototype Test	2210	700		
Embedded Diagnostics	3744	2807		
Limited User Test (LUT) (Load Handling System, Expansible Van, 10T Dump)	1750	325		
Alternative Powertrain Technology Insertion		1443	1994	1942
Other	208	387		
Small Business Innovative Research/Small Business Technical Transfer Program		363		
<b>Total</b>	<b>18006</b>	<b>12881</b>	<b>1994</b>	<b>1942</b>

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<b><u>B. Program Change Summary</u></b>	FY 2006	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2007)	18518	1925	2010	1945	
Current BES/President's Budget (FY 2008/2009)	18006	12881	1994	1942	
Total Adjustments	-512	10956	-16	-3	
Congressional Program Reductions		-49			
Congressional Rescissions					
Congressional Increases		11100			
Reprogrammings	-512	-95			
SBIR/STTR Transfer					
Adjustments to Budget Years			-16	-3	

<b><u>C. Other Program Funding Summary</u></b>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
OPA1 Family of Medium Tactical Vehicles (D15500)	674810	1484041	828403	834429	982325	1009381	1115772	1011464	Continuing	Continuing

Comment:

**D. Acquisition Strategy** Contractual efforts will be on a Fixed Price or Cost Plus Fixed Fee (Level of Effort) basis. The procurement of vehicle platforms will use the current multiyear Firm Fixed Price (FFP) production contract or successor production contracts.

# ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
5 - System Development and Demonstration			0604604A - MEDIUM TACTICAL VEHICLES									H07		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Demonstrator/Prototype Development*	SS-FFP	General Purpose Vehicles, LLC New Haven, MI	3232	2210	2Q	2446	2Q						7888	
Demonstrator/Prototype Development	SS-CPFF	Stewart & Stevenson, Sealy, TX	7273	7884	3Q	4410	3Q						19567	
Diagnostics	C-CPFF	TBS		3744	3Q	2712	2Q						6456	
Alternative Powertrain Technology Insertion	SS-CPFF	Stewart & Stevenson, Sealy, TX				1538	2Q	1994	2Q	1942	2Q		5474	
Other	Various or MIPR/PO		2136	208	3Q	387	3Q						2731	
SBIR/STTR	N/A					363	1Q						363	
Subtotal:			12641	14046		11856		1994		1942			42479	

Remarks: \* FY06 Demonstrator/Prototype Development of 2,210K is scheduled for award Jan 07.

Other Includes:

FY06 (208K): Shipping(8K); Robotic Convoy (200K)

FY07 (387K): Track-over-Tire (Congressional Add)

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														

Remarks: Not Applicable

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Demonstrator	MIPR/PO	Yuma Proving Ground, AZ		2210	4Q	700	4Q						2910	

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Limited User Test s (LUTs) - LHS/Van/Dump	MIPR/PO	ATEC, Various Test Sites	2474	1750	1-4Q	325	2Q							4549	
Subtotal:			2474	3960		1025								7459	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal:															
Remarks: Not Applicable															
<b>Project Total Cost:</b>			<b>15115</b>	<b>18006</b>		<b>12881</b>		<b>1994</b>		<b>1942</b>			<b>49938</b>		

# Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604604A - MEDIUM TACTICAL VEHICLES**

PROJECT  
**H07**

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13																																							
	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	1	2	3	4																																				
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVALUATION</b>																																																																				
ExVan - LUT			■																																																																	
Load Handling System (LHS) - LUT			■																																																																	
10 Ton Dump - LUT																																				■																																
Demonstrator / Prototype Development	■ Demonstrator/Prototype Development																																																																			
Alternative Powertrain Technology Insertion	■ Alternative Powertrain Technology																																																																			
Technology Insertion	■ Technology Insertion																																																																			
<b>PROCUREMENT</b>																																																																				
A1 Rebuy Production	■ A1 Rebuy Production																																																																			
Follow-on Production	■ Follow-on Production																																																																			

**Schedule Detail (R4a Exhibit)**

**February 2007**

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604604A - MEDIUM TACTICAL VEHICLES**

**PROJECT**  
**H07**

<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
RESEARCH, DEVELOPMENT, TEST & EVALUATION								
ExVan - LUT	2Q - 3Q							
Load Handling System (LHS) - LUT	3Q							
10 Ton Dump - LUT		4Q						
Demonstrator / Prototype Development	1Q - 4Q	1Q - 4Q	1Q					
Alternative Powertrain Technology Insertion			1Q - 4Q	1Q - 4Q				
Technology Insertion					1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q
PROCUREMENT								
A1 Rebuy Production	1Q - 4Q	1Q - 4Q	1Q - 4Q					
Follow-on Production				1Q - 4Q				