

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

February 2005

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

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

PROJECT  
**H0**

COST (In Thousands)		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
H07	FAMILY OF MED TAC VEH	4169	14046	1886	1896	1980	1914	1782	1844	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This program element supports continued modernization of the Army's medium truck fleet. The Family of Medium Tactical Vehicles (FMTV) replaces aging M44 Series 2 1/2-ton trucks, M39, and M809 Series 5-ton trucks that are beyond their economic useful life of 20-22 years. FMTV also provides follow-on to the M939/A2 Series 5-ton truck. FMTV fills 2 1/2-ton Light Medium Tactical Vehicle (LMTV) and 5-ton truck Medium Tactical Vehicles (MTV) requirements, resolves operational deficiencies and operates throughout the theater as multi-purpose transportation vehicles used by combat, combat support and combat service support units. This system rapidly deploys worldwide and operates on primary and secondary roads, trails, and cross-country terrain in all climatic conditions. The funds support continuous product improvements, technology insertion, and new capabilities for FMTV. FY06/07 funding will be used to work on the FMTV A2 demonstrator projects and Limited User Tests.

## Accomplishments/Planned Program

	FY 2004	FY 2005	FY 2006	FY 2007
Load Handling System (LHS) (Hardware Development / Test)	1004	0	0	0
Survivability Improvements (Engr Studies / Prototype Analysis)	105	0	0	0
Dump 10 Ton (Hardware Development / Test / TDP)	1465	33	0	0
Alternative Propulsion System - Hybrid (Engr Studies/Component Integration)	500	500	0	0
A2 Demonstrator (Prototype Development / Test)	1095	11495	376	1398
FMTV Weight/Cost Reduction	0	2018	0	0
Limited User Test (LUT) (LHS,ExVan,10T Dump)	0	0	1510	498
<b>Totals</b>	<b>4169</b>	<b>14046</b>	<b>1886</b>	<b>1896</b>

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	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	2854	1924	1917
Current Budget (FY 2006/2007 PB)	14046	1886	1896
Total Adjustments	11192	-38	-21
Net of Program/Database Changes			
Congressional Program Reductions	-205		
Congressional Rescissions			
Congressional Increases	11800		
Reprogrammings			
SBIR/STTR Transfer	-403		
Adjustments to Budget Years		-38	-21

FY 2004 Adjustments:

FY 2004 Reprogramming \$ + 175

FY 2005 Adjustments:

Congressional Increases + 11800

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<b>C. Other Program Funding Summary</b>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	ToCompl	TotalCost
OPA1 Family of Medium Tactical Vehicles (D15500)	324680	593613	449601	634140	624937	567453	680227	553247	Continue	Continue

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

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>					PE NUMBER AND TITLE <b>0604604A - MEDIUM TACTICAL VEHICLES</b>					PROJECT <b>H0</b> <input type="checkbox"/>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Load Handling System (LHS)	SS-CPFF	Stewart & Stevenson, Sealy, TX	3319	0		0		0		0	3319	0
b . Dump - 10T - Prototype Dev	SS-CPFF	Stewart & Stevenson, Sealy, TX	3290	33	1Q	0		0		0	3323	0
c . Alternative Propulsion System	C-CPFF	Sverdrup Tech, Inc Ft. Walton Beach, FL	759	500	1Q	0		0		0	1259	0
d . A2 Demonstrator	SS-FFP	General Purpose Vehicles, LLC New Haven, MI	1095	2079	2Q	376	1Q	1398	1-2Q	0	4948	0
e . A2 Demonstrator	SS-CPFF	Stewart & Stevenson, Sealy, TX	0	9416	2-4Q	0		0		0	9416	0
f . FMTV Weight/Cost Reduction	TBD	T B D	0	2018	2-4Q	0		0		0	2018	0
g . Other			2136	0		0		0		0	2136	0
Subtotal:			10599	14046		376		1398		0	26419	0

<b>ARMY RDT&amp;E COST ANALYSIS(R3)</b>									<b>February 2005</b>			
<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>					<b>PE NUMBER AND TITLE</b> <b>0604604A - MEDIUM TACTICAL VEHICLES</b>					<b>PROJECT</b> <b>H0</b>		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Load Handling System	MIPR/PO	ATC, Aberdeen Proving Grounds, MD	2235	0		0		0		0	2235	0
b . Dump - 10T - PPQT	MIPR/PO	ATC, Aberdeen Proving Grounds, MD	2144	0		0		0		0	2144	0
c . Limited User Test - LUT	MIPR/PO	ATEC , Various	0	0		1510	1Q	498	1Q	0	2008	0
Subtotal:			4379	0		1510		498		0	6387	0

ARMY RDT&E COST ANALYSIS(R3)										February 2005		
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604604A - MEDIUM TACTICAL VEHICLES					PROJECT H0		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
Project Total Cost:			14978	14046		1886		1896		0	32806	0

Schedule Profile (R4 Exhibit)																				February 2005												
BUDGET ACTIVITY 5 - System Development and Demonstration										PE NUMBER AND TITLE 0604604A - MEDIUM TACTICAL VEHICLES																PROJECT H0						
Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
	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				
RESEARCH, DEVELOPMENT, TEST & EVALUATION																																
Load Handling System (LHS), LHS & ExVan LUT																																
Dump 10T, Dump 10T LUT																																
A2 Demonstrator Development																																
Technology Insertion																																
PROCUREMENT																																
A1 Production																																
A1 Rebuy Production																																
(1) Fielding IPR																																
(2) FUE																																
Follow-on Production																																

## Schedule Detail (R4a Exhibit)

**February 2005**

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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
FMTV - Load Handling System (LHS) - Developmental Testing and Evaluation	1-4Q							
Dump 10T - Developmental Testing and Evaluation	2-4Q	1Q						
Limited User Test (LUT) - LHS and ExVan			1-3Q					
Limited User Test (LUT) - 10T Dump				1Q				
A2 Demonstrator Development	2-4Q	1-4Q	1-4Q	1-4Q	1Q			
Technology Insertion					1-4Q	1-4Q	1-4Q	1-4Q
A1 Full Rate Production (FRP)	1-4Q	1Q						
A1 Rebuy Production	2-4Q	1-4Q	1-4Q	1-4Q	1-4Q			
Fielding IPR		1Q						
First Unit Equipped (FUE)		2Q						
Follow-On Production					2-4Q	1-4Q	1-4Q	1-4Q