

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

BUDGET ACTIVITY 5 - Engineering and manufacturing development				PE NUMBER AND TITLE 0604604A - MEDIUM TACTICAL VEHICLES				PROJECT H07	
COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
H07 FAMILY OF MED TAC VEH	2014	1945	1953	2939	2928	1981	1976	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 average useful life of 20-22 years. FMTV also provides follow-on to the M939/A2 Series 5-ton truck. FMTV is required to fill 2-½ Light Medium Tactical Vehicle (LMTV) and 5-ton truck (MTV) requirements, resolve operational deficiencies and operate throughout the theater as multi-purpose transportation vehicles used by combat, combat support and combat service support units. This system is designed to be rapidly deployable worldwide and operate on primary and secondary roads, trails, and cross-country terrain in all climatic conditions. The funds will support continuous product improvements, technological upgrades and new capabilities for FMTV. Funding will be used to develop a lighter dump body with improved wear characteristics; develop an improved survivability cab for the safety of the soldier; study/analyze and build/test prototype of an alternative Load Handling System (LHS); insert electrical power management/technology; develop an alternative propulsion system; develop active suspension system and further vehicle component improvement.

This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

FY 2001 Accomplishments:

- 299 Power Management/Technology Insertion (Next Generation Electrical Architecture Development)
- 848 Load Handling System (LHS) (Platform/Trailer Proc, Engineering Support)
- 250 Cab Survivability Improvement (CSI) (Cab Mock-up)
- 294 Vehicle Component Improvements (Misc Engr Studies)
- 73 Trailer CAMEL Testing (Water Pod Compatibility)
- 250 Dump Bed Improvements (Study)

Total 2014

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H07**FY 2002 Planned Program**

- 25 Power Management/Technology Insertion (Next Generation Electrical Architecture Development)
- 1645 Load Handling System (LHS) (Perf Test (APG), Contr Test Support, Drawings)
- 150 Cab Survivability Improvement (CSI) (Study)
- 125 Vehicle Component Improvements (Misc Engr Studies)

Total 1945

FY 2003 Planned Program

- 25 Power Management/Technology Insertion (Next Generation Electrical Architecture Development)
- 495 Load Handling System (LHS) (Drawings, Report Writing)
- 450 Cab Survivability Improvement (CSI)(Ballistic Testing)
- 275 Vehicle Component Improvement (Misc Engr Studies)
- 500 Alternative Propulsion System (Engr Studies)
- 208 Active Suspension System (Engr Studies)

Total 1953

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<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	1942	1962	1958
Appropriated Value	1959	1962	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-17	0
b. SBIR / STTR	-57	0	0
c. Omnibus or Other Above Threshold Reduction	0	0	0
d. Below Threshold Reprogramming	130	0	0
e. Rescissions	-18	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	-5
Current Budget Submit (FY 2003 PB)	2014	1945	1953

<u>C. Other Program Funding Summary</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA1 Family of Medium Tactical Vehicles (D15500)	464961	464137	681373	432528	696935	775517	1281020	Continue	Continue

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D. Acquisition Strategy: The contractual efforts will option on to the current contracts that are based on Time and Material (T&M).

<u>E. Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Ballistic Protection (Ballistic Testing)			3Q				
FMTV - Load Handling System (LHS) - Developmental Testing and Evaluation		3-4Q					
Limited User Test (LUT) (FMTV A1 Competitive Rebuy)				3-4Q	1Q		

ARMY RDT&E COST ANALYSIS(R-3)

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Power Management/Technology Insertion	PO	TACOM, Warren, MI	1005	50	2-3Q	25	2Q	25	2Q	400	1505	0
b . Load Handling System (LHS)	C-T&M	S&S, Sealy, TX	393	848	2-3Q	560	2-3Q	495	1-2Q	0	2296	0
c . Dump Bed Design Initiatives/Load Sensor	PO	TACOM, Warren, MI	255	250	2-3Q	0		0		0	505	0
d . Cab Survivability Impr. (FMTV)	PO	TACOM, Warren, MI	0	250	3Q	150	2Q	200	3Q	1000	1600	0
e . Vehicle Component Improvements	C-T&M	Veridian, Ann Arbor, MI	0	294	2-3Q	125	2Q	275	2Q	200	894	0
f . Trailer CAMEL Modeling	C-T&M	S&S, Sealy, TX	0	73	2Q	0		0		0	73	0
g . Active Suspension System	PO	TACOM, Warren, MI	0	0		0		208	2Q	200	408	0
h . Alternative Propulsion System	PO	TACOM, Warren, MI	0	0		0		500	2Q	1500	2000	0
Subtotal:			1653	1765		860		1703		3300	9281	0

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Cab Survivability Improvements (FMTV)		TACOM, Warren, MI	73	0		0		0		0	73	0
b . Power Management/Technology Insertion		TACOM, Warren, MI	179	0		0		0		0	179	0
Subtotal:			252	0		0		0		0	252	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Load Handling System	PO	Aberdeen Proving Grounds, MD	0	0		1085	3-4Q	0		0	1085	0
b . Power Management/Technology Insertion	C-T&M	Camber, Warren, MI	0	249	2-3Q	0		0		229	478	0
c . Cab Survivability Impr. (FMTV)	PO	Aberdeen Proving Grounds, MD	0	0		0		250	3Q	227	477	0
Subtotal:			0	249		1085		250		456	2040	0

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 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:			1905	2014		1945		1953		3756	11573	0
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