

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
**0604642A - LIGHT TACTICAL WHEELED
VEHICLES**

PROJECT
E40

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
E40	LTV PROTOTYPE	17377	9587	0	0	0	0	0	0	0	50071

A. Mission Description and Budget Item Justification: The High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) is a lightweight, high performance, four-wheel drive, air transportable and air droppable, high mobility tactical wheeled vehicle. The HMMWV consists of a basic design with several variants including Cargo/Utility, Armament Carrier, Ambulance, Shelter Carrier and Armored Armament Carrier. FY 2005 funds HMMWV Repower Testing and development to support logistics improvements to the HMMWV Family of Vehicles through the use of more recent engine technologies and maintainability improvements, which will result in decreased operational support costs and product improvements. Technology advancements in both armor and ballistic glass materials have progressed to the point that improved ballistic protection is available that is lighter and less expensive. This effort will also address a removable armor package that could potentially be used on a portion of the HMMWV fleet to increase ballistic and blast protection on non-protected vehicles.

Accomplishments/Planned Program

	FY 2004	FY 2005	FY 2006	FY 2007
HMMWV Modernization Development Contract	1000	0	0	0
Assemble and test up to ten prototype vehicles - HMMWV Modernization	313	0	0	0
EMI Testing - HMMWV Modernization	35	0	0	0
HE HMMWV Technology	2420	0	0	0
Repower Testing & Logistical Improvements	12824	7620	0	0
Support Costs (Engineering/Quality/Matrix Support)	785	467	0	0
HMMWV Technology Improvement	0	1500	0	0
Totals	17377	9587	0	0

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B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	0	0	20512
Current Budget (FY 2006/2007 PB)	9587	0	0
Total Adjustments	9587	0	-20512
Net of Program/Database Changes			
Congressional Program Reductions	-137		
Congressional Rescissions			
Congressional Increases	10000		
Reprogrammings			-20512
SBIR/STTR Transfer	-276		
Adjustments to Budget Years			

FY05 + 9587 Congressional Add
FY07 -20512 Realigned for Higher Headquarters priority requirements.

C. Other Program Funding Summary

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA1 Hi Mob Multi-Purp Whld Veh (D15400)	1338390	432914	224222	331307	340946	481836	724096	347249	Continue	Continue

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<p><u>D. Acquisition Strategy:</u> The Acquisition Strategy for HMMWV Repower is to award three contracts for Testing and Logistical Improvements, development and testing of vehicle prototypes.</p>		

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES					PROJECT E40		
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 . Development Contract - HMMWV Modernization	SS/CPFF	AM General, Mishawaka, IN	17764	0		0		0		0	17764	17764
b . In-House Engineering (TACOM)	N/A	TACOM, Warren, MI	2057	467		0		0		0	2524	2524
c . HE HMMWV Technology	SS/CPFF	AM General, Mishawaka, IN	3199	0		0		0		0	3199	3199
d . Repower Testing & Logistical Improvement	N/A	NAC, Warren, MI	664	0		0		0		0	664	664
e . Repower Integration	N/A	Redstone, Arsenal, AL	2300	0		0		0		0	2300	2300
f . Development Contract - HMMWV Repower	TBD	TBD	7989	7620		0		0		0	15609	15609
g . Armor Protection Kit Testing	MIPR	ATC, Aberdeen, MD	54	0		0		0		0	54	54
h . HMMWV Technology Improvement	SS/FFP	AM General, Mishawaka, IN	0	1500		0		0		0	1500	1500
Subtotal:			34027	9587		0		0		0	43614	43614

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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 . Developmental Testing - HMMWV Modernization	MIPR	ATC, Aberdeen, MD	2111	0		0		0		0	2111	2111
b . Developmental Testing - HMMWV Modernization	MIPR	Yuma Proving Ground, AZ	948	0		0		0		0	948	948
c . Transportability Testing - HMMWV Modernization	MIPR	Defense Ammunition Center, OK	36	0		0		0		0	36	36
d . EMI Testing - HMMWV Modernization	MIPR	White Sands Missile Range, NM	313	0		0		0		0	313	313
e . LVAD & HSL Certification	MIPR	NATICK	81	0		0		0		0	81	81
f . Experimentation Testing - HE HMMWV	MIPR	Ft Benning, GA	31	0		0		0		0	31	31
g . Test/Validate Near Term Armor Protection	MIPR	ATC, Aberdeen, MD	807	0		0		0		0	807	807

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III. Test and Evaluation (continued)	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
h . Repower Testing	MIPR	Yuma Proving Ground, AZ	1000	0		0		0		0	1000	1000
i . Repower Risk Reduction Testing	MIPR	ATC, Aberdeen, MD	103	0		0		0		0	103	103
j . Repower Testing	MIPR	ATC, Aberdeen, MD	1027	0		0		0		0	1027	1027
Subtotal:			6457	0		0		0		0	6457	6457
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
Subtotal:			0	0		0		0		0	0	0
Remarks: Not applicable												
Project Total Cost:			40484	9587		0		0		0	50071	50071