

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES						
COST (In Thousands)	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
Total Program Element (PE) Cost	9581	7393	0	0	0	0	0	0	42251
E40 LTV Prototype	9581	0	0	0	0	0	0	0	34858
E46 HMMWV Recap	0	7393	0	0	0	0	0	0	7393
<p><u>A. Mission Description and Budget Item Justification:</u> 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 2006 Congressional increase 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 and increased power for vehicles with add-on-armor in theatre.</p>									

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)				February 2006
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES		
	FY 2005	FY 2006	FY 2007	
<u>B. Program Change Summary</u>				
Previous President's Budget (FY 2006)	9171	2501	7877	
Current BES/President's Budget (FY 2007)	9581	7393	0	
Total Adjustments	410	4892	-7877	
Congressional Program Reductions		-32		
Congressional Rescissions		-75		
Congressional Increases		7500		
Reprogrammings				
SBIR/STTR Transfer				
Adjustments to Budget Years				
FY06 Congressional Increases.				

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES				PROJECT E46		
COST (In Thousands)	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	
E46 HMMWV Recap	0	7393	0	0	0	0	0	0	7393	
<p><u>A. Mission Description and Budget Item Justification:</u> The HMMWV Recapitalization Program is a remanufacture program to extend the life of the overage HMMWVs. The HMMWV fleet is experiencing increased Operation and Support (O&S) costs, excessive wear, and corrosion. These HMMWVs are in need of replacement/remanufacture. The HMMWV Recapitalization Program will provide operational and safety improvements to the current fleet of vehicles and will extend the useful service life by 15 years. FY 2006 Congressional increase 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 and increased power for vehicles with add-on armor in theater. 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.</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>		
Repower Kit Development, Testing, & Integration						0	3981	0		
Support Costs (Engineering/Quality/Matrix Support)						0	212	0		
HMMWV Technology Improvement						0	1500	0		
VePRO (Vehicle Maintenance Prognostics System)						0	1700	0		
Total						0	7393	0		
<u>B. Other Program Funding Summary</u>		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA-1 Hi Mob Multi-Purp Whld Veh (D15400)		938726	391276	582613	713548	787622	850511	679880	CONT	CONT
<p><u>C. 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, with downselect to a single source for production. The Acquisition Strategy for the VePRO (Vehicle Maintenance Prognostics System), if proven to be beneficial and effective, will be incorporated into the HMMWV production.</p>										

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES						PROJECT E46		
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
In-House Engineering (TACOM)	N/A	TACOM, Warren, MI	0	0		212	2-4Q	0		0	212	0
HMMWV Technology Improvement	SS/FFP	AM General, Mishawaka, IN	0	0		2500	3-4Q	0		0	2500	0
VePro (Vehicle Maintenance Prognostics System)	To Be Determined	To Be Determined	0	0		1700	2-3Q	0		0	1700	0
Subtotal:			0	0		4412		0		0	4412	0
II. Support Costs	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									
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
Repower Testing	MIPR	Yuma Proving Ground, AZ	0	0		558	2Q	0		0	558	600
Repower Testing	MIPR	ATC, Aberdeen, MD	0	0		2123	2Q	0		0	2123	500
Supportability Testing	MIPR	Natick, MA	0	0		300	2-3Q	0		0	300	500
Subtotal:			0	0		2981		0		0	2981	1600
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

ARMY RDT&E COST ANALYSIS (R3)							February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604642A - LIGHT TACTICAL WHEELED VEHICLES						PROJECT E46	
Subtotal:		0							
Remarks: Not applicable									
Project Total Cost:		0	0		7393		0	0	7393 1600