

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604649A - Engineer Mobility Equipment Development

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	45657	14862	9279	0	0	0	0	0	0	0
G25 M1 BREACHER DEV	45200	14862	0	0	0	0	0	0	0	0
G26 HEAVY ASSAULT BRIDGE	457	0	0	0	0	0	0	0	0	0
G29 ENGINEER VEHICLE UPGRADES	0	0	9279	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program element supports the development of new, advanced combat engineer systems that will have mobility characteristics comparable to the maneuver forces supported. The programs included in this program element are the Grizzly (M1 Breacher), the Wolverine (Heavy Assault Bridge) and the legacy Armored Vehicle Launched Bridge (AVLB). The Grizzly base vehicle is an M1 Abrams Tank chassis whereas the Wolverine base vehicle is the M1A2 System Enhancement Package (SEP) Abrams Tank chassis. The Grizzly integrates a versatile/survivable full-width mine clearing blade with automatic depth control, a power driven arm, and an armored commander's control station on the chassis. The Wolverine integrates a Military Load Class (MLC) 70 bridge spanning a 24 meter gap (26 meter bridge) with computer controlled launching mechanism and is fully FBCB2 compliant. The Engineer Vehicle Upgrades (G29) project recapitalizes the M48/M60 based AVLB. The Engineer Vehicle Upgrades (DG29) support the Legacy transition path of the Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	57881	0	0	0
Appropriated Value	58321	15000		
Adjustments to Appropriated Value		0		
a. Congressional General Reductions		0		
b. SBIR / STTR	-1558	0		
c. Omnibus or Other Above Threshold Reductions	-239	0		
d. Reprogramming	-10665	0		
e. Rescissions	-202	-138		
Adjustments to Budget Years Since FY2001 PB		0	9279	
Current Budget Submit (FY 2002/2003 PB)	45657	14862	9279	0

Change Summary Explanation:

- FY 2000 Funds reprogrammed (-\$10665K) to higher priority requirements.
- FY 2002/2003 Funds reprogrammed to support the AVLB recapitalization effort.

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604649A - Engineer Mobility Equipment Development				PROJECT G25		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
G25 M1 BREACHER DEV	45200	14862	0	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> Not applicable for this item.</p> <p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u> Not applicable for this item.</p> <p><u>D. Schedule Profile:</u> Not applicable for this item.</p>										

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604649A - Engineer Mobility Equipment Development				PROJECT G26		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
G26 HEAVY ASSAULT BRIDGE	457	0	0	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> Not applicable for this item.</p> <p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u> Not applicable for this item.</p> <p><u>D. Schedule Profile:</u> Not applicable for this item.</p>										

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604649A - Engineer Mobility Equipment Development					PROJECT G29	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
G29 ENGINEER VEHICLE UPGRADES	0	0	9279	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>Recapitalization is the selected upgrade that renews the Armored Vehicle Launched Bridge (AVLB) Chassis and Bridge to near zero time/zero miles. Bridge is upgraded from Military Load Class (MLC) 60 to MLC 70 with complete repair of common parts. Chassis is upgraded by installing improved hydraulic, electrical, suspension and powertrain system. The MLC 70 bridge is required to safely cross the current combat fleet weighing between 60 and 70 tons. The Chassis upgrade provides maneuver force mobility, sustained operational readiness rates and logistics commonality with current/future maneuver force. AVLB recapitalization updates obsolete 1950's technology and eliminates associated supply and obsolescence issues. Recapitalization is fundamental to the Army Transformation Plan, improving mobility, operational readiness rates and controlling fleet Operation and Support (O&S) costs.</p> <p>The 36 year old AVLB, which has never had a major upgrade, must complement the Wolverine to meet the assault bridging requirement of the Army Transformation Plan. Recapitalization of the AVLB ensures it is viable and supportable for another 20 years of service. It provides the capability for MLC 70 combat vehicles (Abrams Tank and HERCULES) to safely cross the full span. The current 81% AVLB readiness rate will improve to sustain the required 90% operational readiness.</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 8703 Developmental Contract 576 Program Management <p>Total 9279</p>										

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Development

PROJECT

G29

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
PA, WTCV, GZ3050, AVL B SLEP	0	0	0	0	0	0	0	0	0	0

C. Acquisition Strategy: The recapitalized vehicle incorporates proven current technology components to support a low risk effort. Depending on the results of a market survey this will be either a competitive contract or sole source to General Dynamics Land Systems (GDLS) who has produced the only demonstrator vehicle to date. A single development contract will be awarded to complete design integration, testing and logistics package. Testing will verify performance, durability and safety in a combined Developmental Test/Operational Test (DT/OT). In production, a contractor will be selected based on the results of a market survey. The selected contractor will integrate the procurement of hardware/kits for application at Anniston Army Depot.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Award Development Contract			2Q	0	0	0	0	0
Start Combined DT/OT				0	0	0	0	0
Complete Combined DT/OT				0	0	0	0	0
Production Readiness Review				0	0	0	0	0
Milestone III				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604649A - Engineer Mobility Equipment Development					PROJECT G29		
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 . Develop TDP, Proveout	CPFF	TBD	0	0		8703	2Q	0	0	0	0	0
Subtotal:			0	0		8703		0		0	0	0
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 . Other Gov't Agencies	MIPR	TACOM Warren, MI, Various Sup't Offices	0	0		180	1Q	0	0	0	0	0
Subtotal:			0	0		180		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
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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 . DT/OT	TBD	TBD	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0
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
a . PMO Support	NA	TACOM, Warren, MI	0	0		396	1Q	0	0	0	0	0
Subtotal:			0	0		396		0		0	0	0
Project Total Cost:			0	0		9279		0		0	0	0