

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val						
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	0	58473	27498	30393	30407	42568	47642	0	236981
S56 MOUNTED WARRIOR	0	8971	0	0	0	0	0	0	8971
S57 LAND WARRIOR	0	49502	27498	30393	30407	42568	47642	0	228010
<p><u>A. Mission Description and Budget Item Justification:</u> This program element is composed of two projects: Project S56 for Mounted Warrior Soldier System (MWSS) and Project S57 for Land Warrior (LW). MWSS provides combat crewmembers and vehicle commanders in the Current and Future force with increased mission effectiveness on the network centric battlefield in the areas of lethality, command and control, communications, survivability, mobility, and sustainability. MWSS provides the dismounted and mounted combat crewmembers increased capabilities to conduct offensive and defensive operations by providing uninterrupted viewing of their platform and dismounted Soldiers. MWSS Helmet Mounted Display extends fire control information to vehicle crewmembers while they are standing up in, or viewing out of the hatch allowing them to maintain immediate situational awareness of their direct battle space, while simultaneously controlling inter-netted fires, vehicle, or dismounted Soldiers. MWSS will provide remote digital connectivity to the Force XXI Battle Command Brigade and Below (FBCB2) information system via the vehicle's C4I capabilities. Project S57 supports the LW concept, a first generation, modular, integrated fighting system focused on the needs of the individual infantry Soldier and Soldiers in support of the close fight. Newly demonstrated reliability and advanced lethality capabilities for the individual Soldier has led the Army to perform a Doctrine, Organization, Training, Materiel, Leadership, and Education, Personnel and Facilities (DOTMLPF) assessment to determine the capability gaps that LW and MWSS can fulfill. As such, an Army Stryker Battalion will be equipped with LW for evaluation purposes in FY06. This evaluation will be used to support a milestone C decision by the Army Acquisition Executive (AAE) in FY07.</p>									

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)				February 2006
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val		
	FY 2005	FY 2006	FY 2007	
<u>B. Program Change Summary</u>				
Previous President's Budget (FY 2006)	0	57818	27086	
Current BES/President's Budget (FY 2007)	0	58473	27498	
Total Adjustments	0	655	412	
Congressional Program Reductions		-256		
Congressional Rescissions		-589		
Congressional Increases		1500		
Reprogrammings				
SBIR/STTR Transfer				
Adjustments to Budget Years			412	
Change Summary Explanation: Funding - FY 2006 Congressional increase for \$1.5M for Mounted Warrior Command and Control Heads Up Display.				

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2006	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val				PROJECT S56	
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
S56 MOUNTED WARRIOR	0	8971	0	0	0	0	0	0	8971
<p><u>A. Mission Description and Budget Item Justification:</u> Mounted Warrior Soldier System (MWSS) provides combat crew members and vehicle commanders in the Current and Future force with increased mission effectiveness on the network centric battlefield in the areas of lethality, command and control, communications, survivability, mobility, and sustainability. MWSS will provide the dismounted and mounted combat crewmembers increased capabilities to conduct offensive and defensive operations by providing uninterrupted viewing of their immediate surroundings while remaining connected to on-board platform C4I capabilities, thereby providing crews with continuous situational awareness and communications with platform and dismounted Soldiers. MWSS Helmet Mounted Display extends fire control information to vehicle crewmembers while they are standing up in or viewing out of the hatch allowing them to maintain immediate situational awareness of the their direct battle space, while simultaneously controlling inter-netted fires, vehicle, or dismounted Soldiers. MWSS will provide remote digital connectivity to the Force XXI Battle Command Brigade and Below (FBCB2) information system via the vehicle's C4I capabilities. FY06 Congressional plus-up of \$1.5 million funds development of command and control heads up display (see-through, daylight readable, retinaly scanning helmet mounted displays).</p> <p>Prior to FY06 this funding was under PE 0604713A, Project 680.</p>									
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
FY06: Planned Program: Continues developmental engineering, prototyping, manufacturing, and systems engineering, assessment, limited test and evaluation, and program management support for Battalion quantity of Mounted Warrior Soldier System.						0	7471	0	
Congressional Plus-up funds development of command and control heads up display (see-through, daylight readable, retinaly scanning helmet mounted displays).						0	1500	0	
Total						0	8971	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
RDTE, 0604713A, D680, Mounted Warrior	9022	0	0	0	0	0	0	0	9022
OPA 3, M80600, Mounted Warrior	0	8287	0	0	0	0	0	0	8287
<p><u>C. Acquisition Strategy</u> The MWSS program provides the spiral fielding of mature technologies and advanced capabilities to meet the needs of the Combat Vehicle Crewman (CVC). The first spiral will equip a Stryker battalion with mature/existing technologies to be used to develop tactics, techniques and procedures (TTPs) during a Doctrine,</p>									

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)		February 2006
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val	PROJECT S56
<p>Organization, Training, Materiel, Leadership, and Education, Personnel and Facilities (DOTMLPF) assessment, which will be used to define the requirements for future spirals.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604827A - Soldier Systems - Warrior Dem/Val							S56		
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
Develop Mounted Warrior Soldier System technologies	CPFF	GDC4S, Scottsdale, AZ	0	0		4494	2-3Q	0		0	0	0
Develop Mounted Warrior Soldier System technologies	MIPR	PM Stryker, Detroit, MI	0	0		1000	2Q	0		0	0	0
Develop Command and Control Heads up Display	TBD	TBD	0	0		1500	3Q	0		0	0	0
Subtotal:			0	0		6994		0		0	0	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
PM Mounted Warrior Program Soldier System Support	OGA, MIPR	Various	0	0		270	1-4Q	0		0	0	0
Subtotal:			0	0		270		0		0	0	0
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
Various Testing Organizations	OGA, MIPR	ATEC, TTC/YPG/DTC/EPG/A RL-SLAD, etc.	0	0		1000	1-3Q	0		0	0	0
Subtotal:			0	0		1000		0		0	0	0
IV. Management Services	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award	FY 2006 Cost	FY 2006 Award	FY 2007 Cost	FY 2007 Award	Cost To Complete	Total Cost	Target Value of

ARMY RDT&E COST ANALYSIS (R3)									February 2006			
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val							PROJECT S56		
	Type				Date		Date		Date			Contract
PM Soldier Warrior oversight of MWSS program	In-House/Task Order	PM Soldier Warrior, Ft. Belvoir, VA	0	0		707	1-4Q	0		0	0	0
Subtotal:			0	0		707		0		0	0	0
Project Total Cost:			0	0		8971		0		0	0	0

Schedule Profile (R4 Exhibit)																		February 2006														
BUDGET ACTIVITY					PE NUMBER AND TITLE																		PROJECT									
5 - System Development and Demonstration					0604827A - Soldier Systems - Warrior Dem/Val																		S56									
Event Name					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
Heads-Up Display Development/Fabrication					Heads-Up Display Development/Fabrication																											
MWSS Development					MWSS Development																											
MWSS Initiate Long Leads					MWSS Long Leads																											
MWSS Limited Testing & Evaluation					MWSS Limited T & E																											
(1) Stryker BN Equipped					Stryker BN Equipped																											
DOTMLPF Assessment					DOTMLPF Assess																											

Schedule Detail (R4a Exhibit)					February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val					PROJECT S56
<u>Schedule Detail</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Heads-up Display Development/Fabrication	2-4Q						
MWSS Development	2-4Q	1-2Q					
MWSS Initiate Long Leads	3-4Q	1-2Q					
MWSS Limited T & E	3-4Q	1-3Q					
(1) Stryker BN equipped		3Q					
DOTMLPF Assessment		4Q					

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2006	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val				PROJECT S57	
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
S57 LAND WARRIOR	0	49502	27498	30393	30407	42568	47642	0	228010
<p>A. Mission Description and Budget Item Justification: Prior to Fiscal Year 2006 (FY06) this funding was under PE 0604713A, Project 667. This project supports the Land Warrior (LW) concept, a first generation, modular, integrated fighting system focused on the needs of the individual infantry Soldier and Soldiers in support of the close fight. Newly demonstrated reliability and advanced lethality capabilities of the LW integrated ensemble to the individual Soldier has led the Army to perform a Doctrine, Organization, Training, Materiel, Leadership, and Education, Personnel and Facilities (DOTMLPF) assessment to determine the capability gaps that LW can fulfill. As such, an Army Stryker Battalion will be equipped with LW for evaluation purposes in FY06. This evaluation will be used to support a milestone C decision by the Army Acquisition Executive (AAE) in FY07.</p> <p>The LW program and FFW Advanced Technology Demonstration (ATD) have consolidated in accordance with the FY05 Appropriations Language and a report has been submitted to Congress. The Ground Soldier System (GSS) will leverage the technological advancements transitioned from the Science and Technology (S&T) community including Future Force Warrior (FFW) to develop the Ground Soldier capability.</p>									
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
FY06-FY07: Prime contractor continues development engineering efforts for the LW integrated ensemble systems for the Stryker Battalion.						0	24993	13540	
FY06-FY07: Continues testing for LW integration ensemble systems capability efforts. Continues to train and support the LW integrated ensemble systems for the Stryker Battalion DOTMLPF assessment.						0	10908	7455	
FY06-FY07: Funds continue to support program management and systems engineering for overall program efforts.						0	13601	6503	
Total						0	49502	27498	
<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
RDTE, 0604713A, D667, Land Warrior	76114	0	0	0	0	0	0	0	76114
OPA 3, M80500, Land Warrior	10613	35277	19226	47350	68921	26066	527	CONT	CONT
OPA 4, MS3610, Land Warrior Initial Spares	710	492	1938	2072	2073	1033	1035	CONT	CONT
RDTE, 0603001, DJ50, Future Warrior Technology Insertion	49121	56034	38250	40951	40611	36188	37981	CONT	CONT

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)		February 2006
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val	PROJECT S57
<p>C. Acquisition Strategy Prior to Fiscal Year 2006 (FY06) this funding was under PE 0604713A, Project 667. This project supports the Land Warrior (LW) concept, a first generation, modular, integrated fighting system focused on the needs of the individual infantry Soldier and Soldiers in support of the close fight. Newly demonstrated reliability and advanced lethality capabilities of the LW integrated ensemble to the individual Soldier has led the Army to perform a Doctrine, Organization, Training, Materiel, Leadership, and Education, Personnel and Facilities (DOTMLPF) assessment to determine the capability gaps that LW can fulfill. As such, an Army Stryker Battalion will be equipped with LW for evaluation purposes in FY06. This evaluation will be used to support a milestone C decision by the Army Acquisition Executive (AAE) in FY07.</p> <p>The LW program and FFW Advanced Technology Demonstration (ATD) have consolidated in accordance with the FY05 Appropriations Language and a report was submitted to Congress in February 2005.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT		
5 - System Development and Demonstration				0604827A - Soldier Systems - Warrior Dem/Val						S57		
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
Develop LW integrated ensemble systems, and GSS capability	CPFF	GDC4S, Scottsdale, Arizona	0	0		24993	1-4Q	13540	1-4Q	Continue	0	0
Subtotal:			0	0		24993		13540		Continue	0	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												
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
Modern Tech Inc - Support Contractors	Task Order	Modern Tech Inc, Springfield, VA	0	0		3401	1-4Q	2500	1-4Q	0	0	0
TSM, PM Land Warrior Ft. Monmouth Support, and others	OGA, MIPR, Task Order	various	0	0		3058	1-4Q	1000	1-4Q	0	0	0
Subtotal:			0	0		6459		3500		0	0	0
Remarks: Buys government and contract engineering and logistical support for overall program support.												
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
Various Testing Organizations	OGA, MIPR	ATEC, TTC/YPG/DTC/EPG/A RL-SLAD, etc	0	0		9408	1-4Q	7455	1-4Q	0	0	0
Training and Doctrine Command DOTMLPF Assessment	MIPR	TRADOC Systems Manager, Ft. Benning, GA	0	0		1500	1-4Q	0		0	0	0
Subtotal:			0	0		10908		7455		0	0	0
IV. Management Services	Contract	Performing Activity &	Total	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost To	Total	Target

ARMY RDT&E COST ANALYSIS (R3)									February 2006			
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val							PROJECT S57		
	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contract
PM Soldier Warrior - oversight of LW program	In-House Task Order	Various	0	0		7142	1-4Q	3003	1-4Q	0	0	0
Subtotal:			0	0		7142		3003		0	0	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												
Project Total Cost:			0	0		49502		27498		0	0	0

Schedule Profile (R4 Exhibit)																	February 2006															
BUDGET ACTIVITY					PE NUMBER AND TITLE																	PROJECT										
5 - System Development and Demonstration					0604827A - Soldier Systems - Warrior Dem/Val																	S57										
Event Name					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				
Development of LW Integrated Ensemble Systems																																
Testing for LW Integrated Ensemble Systems																																
DOTMLPF Assessment																																
Limited User Testing																																
Development of Ground Soldier Systems																																

Schedule Detail (R4a Exhibit)					February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604827A - Soldier Systems - Warrior Dem/Val				PROJECT S57	
<u>Schedule Detail</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Development of LW Integrated ensemble systems	1-4Q	1-4Q	1-4Q				
Testing for LW integrated ensemble systems	4Q	1-4Q	1-4Q				
DOTMLPF Assessment		4Q					
Limited User Testing		4Q	1Q				
Development of Ground Soldier Systems				1-4Q	1-4Q	1-4Q	1-4Q