

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	20.086	19.683	20.886	0.000	20.886	22.905	15.421	10.738	15.771	Continuing	Continuing
S56: MOUNTED SOLDIER	15.297	19.683	20.886	0.000	20.886	22.905	15.421	10.738	15.771	Continuing	Continuing
S65: SOLDIER POWER	4.789	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification											
This program element contains Project S56 for Mounted Warrior Soldier System (MWSS). 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.											
B. Program Change Summary (\$ in Millions)											
			FY 2009	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	
Previous President's Budget			17.730	19.786		21.036		0.000		21.036	
Current President's Budget			20.086	19.683		20.886		0.000		20.886	
Total Adjustments			2.356	-0.103		-0.150		0.000		-0.150	
• Congressional General Reductions				-0.103							
• Congressional Directed Reductions				0.000							
• Congressional Rescissions			0.000	0.000							
• Congressional Adds				0.000							
• Congressional Directed Transfers				0.000							
• Reprogrammings			2.356	0.000							
• SBIR/STTR Transfer			0.000	0.000							
• Adjustments to Budget Years			0.000	0.000		-0.150		0.000		-0.150	
Change Summary Explanation											
FY2009-Reprogramming to properly align Congressional Add for Acid Alkaline Direct Methanol Fuel Technology in project S56.											

UNCLASSIFIED

R-1 Line Item #115

Page 1 of 14

1699 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				PROJECT S56: <i>MOUNTED SOLDIER</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S56: <i>MOUNTED SOLDIER</i>	15.297	19.683	20.886	0.000	20.886	22.905	15.421	10.738	15.771	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification Mounted Soldier System (MSS) provides an integrated suite of enhancements to the combat vehicle crew member and commander to address identified capability gaps in their ability to fight, communicate, and maneuver across the full spectrum of operations. The MSS consists of lightweight, modular, and mission tailorable equipment and Command, Control, Communications and Computer (C4) devices worn, carried, or used by mounted crew members in performance of their missions. Major components include an improved Combat Vehicle Crewmember Helmet (CVCH) with heads up display, an untethered (wireless) communications system, and a microclimate cooling system. Other integral components include a Mounted Soldier over-garment and cold weather gloves, Chemical/Biological/Radiological/Nuclear (CBRN) protection, multi-threat eye protection, ballistic protection, flash/flame protection, and individual weapon holster. The MSS increases mission effectiveness by improving Command and Control and Situational Awareness while increasing crewmember survivability, endurance, and comfort.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1 FY09: Began developmental engineering, prototyping, manufacturing, and systems engineering, assessment, contractor testing and program management support for Mounted Soldier System (MSS) use in Heavy Brigades. <i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base							14.934	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #115

Page 2 of 14

1700 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val	PROJECT S56: MOUNTED SOLDIER			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO					
Program #2 FY10 and FY11: Continue developmental engineering, prototyping, manufacturing, and systems engineering, assessment, contractor testing and program management support for MSS for use in Heavy and Stryker Brigade Combat Teams. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO	0.000	16.529	17.443	0.000	17.443
Program #3 FY09: Began Governmental Test and Evaluation (T&E) activities FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010	0.363	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #115

Page 3 of 14

1701 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val	PROJECT S56: MOUNTED SOLDIER			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #4 FY10 and FY11: Continue Governmental Test and Evaluation (T&E)activities including Developmental Tests, Limited User Tests, and Operational Tests. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO	0.000	2.500	3.443	0.000	3.443
Program #5 Small Business Innovative Research/Small Business Technology Transfer Programs FY 2009 Accomplishments: FY 2009	0.000	0.654	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #115

Page 4 of 14

1702 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>			PROJECT S56: <i>MOUNTED SOLDIER</i>				
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO											
Accomplishments/Planned Programs Subtotals							15.297	19.683	20.886	0.000	20.886
<u>C. Other Program Funding Summary (\$ in Millions)</u>											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Ord. #1: <i>MS OPA3 M80600000</i>	0.000	1.082	38.872	0.000	38.872	58.505	124.797	16.717	0.000	0	239.973
<u>D. Acquisition Strategy</u>											
<p>The MSS acquisition roadmap is comprised of two increments. Increment I is documented in the Mounted Warrior Soldier System (MWSS) Capability Production Document (CPD) and was equipped to the 4/9 IN BN of the 4th SBCT during FY07/08 to maintain tethered voice communications, tethered access to host platform displays, sensors, and sights via a tethered helmet mounted display (HMD). Increment II is documented in the Mounted Soldier System (MSS) Capability Development Document (CDD). Increment II (MSS) implements a strategy of time-phased development driven by technology maturity, vehicle availability, and user prioritization. Increment II adds wireless voice communications and Micro-Climate cooling. The acquisition approach is centered around vehicle kit development and integration since the planned MSS subsystems are using relatively mature technology. The MSS program takes advantage of components available from other Government agencies, and Commercial-Off-the-Shelf (COTS) components and technologies as available.</p>											
<u>E. Performance Metrics</u>											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

R-1 Line Item #115

Page 5 of 14

1703 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val					PROJECT S56: MOUNTED SOLDIER				
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Develop and Engineer Mounted Soldier System Wireless Comms	C/FFP	Thales Communications Inc., Clarksburg, MD	0.000	0.100		0.000		0.000		0.000	Continuing	Continuing	0	
Develop and Engineer Mounted Soldier System Microclimate Cooling	C/FFP	Carleton Technologies Inc.	0.000	0.100		0.000		0.000		0.000	Continuing	Continuing	0	
Develop and Engineer Mounted Soldier System Display	C/FFP	Rockwell Collins Carlsbad, CA	0.000	0.100		0.000		0.000		0.000	Continuing	Continuing	0	
Develop and Engineer Mounted Soldier System	C/Various	Various Location could not be determined.	23.409	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Subtotal			23.409	0.300		0.000		0.000		0.000			0.000	
Remarks														
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Mounted Soldier Support	C	Various Location could not be determined.	0.601	11.547		10.005		0.000		10.005	Continuing	Continuing	0	

UNCLASSIFIED

R-1 Line Item #115

Page 6 of 14

1704 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010																																																										
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				PROJECT S56: <i>MOUNTED SOLDIER</i>																																																													
<p>Support (\$ in Millions)</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th colspan="4"></th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th colspan="3"></th> </tr> <tr> <th>Cost Category Item</th> <th>Contract Method & Type</th> <th>Performing Activity & Location</th> <th>Total Prior Years Cost</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">0.601</td> <td align="right">11.547</td> <td></td> <td align="right">10.005</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">10.005</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </table> <p>Remarks</p>																		FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	Subtotal			0.601	11.547		10.005		0.000		10.005			0.000														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total																																																											
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract																																																								
Subtotal			0.601	11.547		10.005		0.000		10.005			0.000																																																								
<p>Test and Evaluation (\$ in Millions)</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th colspan="4"></th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th colspan="3"></th> </tr> <tr> <th>Cost Category Item</th> <th>Contract Method & Type</th> <th>Performing Activity & Location</th> <th>Total Prior Years Cost</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> <tr> <td>Various Testing Organizations</td> <td align="center">C</td> <td>ATEC TTC/YPG/DTC/ EPG/ARL-SLAD, etc.</td> <td align="right">2.000</td> <td align="right">2.500</td> <td></td> <td align="right">3.443</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">3.443</td> <td align="center">Continuing</td> <td align="center">Continuing</td> <td align="right">0</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">2.000</td> <td align="right">2.500</td> <td></td> <td align="right">3.443</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">3.443</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </table> <p>Remarks</p>																		FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	Various Testing Organizations	C	ATEC TTC/YPG/DTC/ EPG/ARL-SLAD, etc.	2.000	2.500		3.443		0.000		3.443	Continuing	Continuing	0	Subtotal			2.000	2.500		3.443		0.000		3.443			0.000
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total																																																											
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract																																																								
Various Testing Organizations	C	ATEC TTC/YPG/DTC/ EPG/ARL-SLAD, etc.	2.000	2.500		3.443		0.000		3.443	Continuing	Continuing	0																																																								
Subtotal			2.000	2.500		3.443		0.000		3.443			0.000																																																								

UNCLASSIFIED

R-1 Line Item #115

Page 7 of 14

1705 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010																																																																	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				PROJECT S56: <i>MOUNTED SOLDIER</i>																																																																				
Management Services (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> <tr> <td>PM Soldier Warrior Management/Support of MSSprogram</td> <td align="center">C</td> <td>PM Soldier Warrior Ft. Belvoir, VA</td> <td align="right">0.000</td> <td align="right">4.682</td> <td></td> <td align="right">7.438</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">7.438</td> <td align="center">Continuing</td> <td align="center">Continuing</td> <td align="right">0</td> </tr> <tr> <td>SBIR/SBTTR</td> <td align="center">C</td> <td>Nothing entered for Activity and Location. Location could not be determined.</td> <td align="right">0.000</td> <td align="right">0.654</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="center">Continuing</td> <td align="center">Continuing</td> <td align="right">0</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">0.000</td> <td align="right">5.336</td> <td></td> <td align="right">7.438</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">7.438</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	PM Soldier Warrior Management/Support of MSSprogram	C	PM Soldier Warrior Ft. Belvoir, VA	0.000	4.682		7.438		0.000		7.438	Continuing	Continuing	0	SBIR/SBTTR	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.654		0.000		0.000		0.000	Continuing	Continuing	0	Subtotal			0.000	5.336		7.438		0.000		7.438			0.000
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																		
PM Soldier Warrior Management/Support of MSSprogram	C	PM Soldier Warrior Ft. Belvoir, VA	0.000	4.682		7.438		0.000		7.438	Continuing	Continuing	0																																																															
SBIR/SBTTR	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.654		0.000		0.000		0.000	Continuing	Continuing	0																																																															
Subtotal			0.000	5.336		7.438		0.000		7.438			0.000																																																															
<u>Remarks</u>																																																																												
<table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th rowspan="2">Project Cost Totals</th> <th>Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> <tr> <td align="right">26.010</td> <td align="right">19.683</td> <td></td> <td align="right">20.886</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">20.886</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </table>														Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	26.010	19.683		20.886		0.000		20.886			0.000																																								
Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																	
	26.010	19.683		20.886		0.000		20.886			0.000																																																																	
<u>Remarks</u>																																																																												

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)												R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val												PROJECT S56: MOUNTED SOLDIER			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val		PROJECT S56: MOUNTED SOLDIER	
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
MSS Increment II - Milestone C	2	2011	2	2011
MSS Increment II - LRIP	3	2011	2	2012
Independent Operational Test and Evaluation (IOTE)	4	2011	2	2012
MSS Increment II - Production	3	2012	3	2015
MSS Increment II - EMD Improvements	1	2013	3	2015

UNCLASSIFIED

R-1 Line Item #115

Page 10 of 14

1708 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604827A: Soldier Systems - Warrior Dem/Val				PROJECT S65: SOLDIER POWER			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S65: SOLDIER POWER	4.789	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification Congressional add FY09 support the M-25 Defense Acquisition Challenge Program Fuel Cell by focusing on solutions that reduce the M-25 system weight and complexity, and increase energy density to accomplish the most lightweight and compact power source possible. Soldier Fuel Cells will provide more power in a smaller, lighter weight package compared to batteries thereby lightening the Soldiers' carried load.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1 Congressional adds are combined to provide developmental and system improvement efforts to the M-25 and Acid Alkaline Soldier Fuel Cell Systems. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO							4.789	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #115

Page 11 of 14

1709 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010					
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>	PROJECT S65: <i>SOLDIER POWER</i>							
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>									
					FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals					4.789	0.000	0.000	0.000	0.000
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A									
<u>D. Acquisition Strategy</u> N/A									
<u>E. Performance Metrics</u> Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.									

UNCLASSIFIED

R-1 Line Item #115

Page 12 of 14

1710 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>				PROJECT S65: <i>SOLDIER POWER</i>					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development and System Improvements to M-25 and Acid Alkaline	C	Wilmington DE	1.545	4.282		0.000		0.000		0.000	0	3.485	0
Subtotal			1.545	4.282		0.000		0.000		0.000	0.000	3.485	0.000
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Ground Soldier and Power support	C	Various Location could not be determined.	0.000	0.374		0.000		0.000		0.000	0	0	0
Subtotal			0.000	0.374		0.000		0.000		0.000	0.000	0.000	0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1.545	4.656		0.000		0.000		0.000	0.000	3.485	0.000

UNCLASSIFIED

R-1 Line Item #115

Page 13 of 14

1711 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army							DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604827A: <i>Soldier Systems - Warrior Dem/Val</i>			PROJECT S65: <i>SOLDIER POWER</i>			
	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks									

UNCLASSIFIED