

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE																																								
					FEBRUARY 2008																																								
APPROPRIATION / BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE / PROJECT NO.																																										
RDT&E, DEFENSE-WIDE / 7			PE 1160478BB SOF Soldier Protection and Survival Systems/S385																																										
COST (Dollars in Millions)	FY07	FY08	FY09	FY10	FY11	FY12	FY12	Cost to Complete	Total Cost																																				
PE1160478BB			3.190	1.467	1.488	1.524	1.923	Cont.	Cont.																																				
S385 SOF Soldier Protection and Survival Systems			3.190	1.467	1.488	1.524	1.923	Cont.	Cont.																																				
<i>A new program element (PE)(1160478BB) was established beginning in FY 2009 for SOF Soldier Protection and Survival Systems. FY 2009-2013 resources were moved from PE 1160404BB, Special Operations Tactical Systems Development.</i>																																													
<p>A. Mission Description and Budget Item Justification: This program element provides for development, testing, and integration of specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF). Specialized equipment will improve survivability and mobility of Special Operations Forces (SOF) while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.</p>																																													
<p>B. Program Change Summary:</p> <table border="0"> <thead> <tr> <th></th> <th><u>FY07</u></th> <th><u>FY08</u></th> <th><u>FY09</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Current President's Budget</td> <td></td> <td></td> <td>3.190</td> </tr> <tr> <td>Total Adjustments</td> <td></td> <td></td> <td>3.190</td> </tr> <tr> <td> Congressional Program Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Reprogrammings</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Other Program Adjustments</td> <td></td> <td></td> <td>3.190</td> </tr> <tr> <td> SBIR Transfer</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	Previous President's Budget				Current President's Budget			3.190	Total Adjustments			3.190	Congressional Program Reductions				Congressional Increases				Reprogrammings				Other Program Adjustments			3.190	SBIR Transfer			
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE FEBRUARY 2008
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7	R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160478BB SOF Soldier Protection and Survival Systems/S385	
<p>Funding:</p> <p>FY07: No change.</p> <p>FY08: No change.</p> <p>FY09: A new PE (1160478BB) and Project (S385) were established beginning in FY 2009 for SOF Soldier Protection and Survival Systems. FY 2009-2013 resources were moved from PE 1160404BB, Special Operations Tactical Systems Development and Project S375, Weapon Systems Advanced Development.</p> <p>Schedule: None.</p> <p>Technical: None</p>		

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008
Appropriation/Budget Activity RDT&E BA # 7	SOF Soldier Protection and Survival Systems/Project S385	

Cost (\$ in million)	FY07	FY08	FY09	FY10	FY11	FY12	FY13
SOF Soldier Protection and Survival Systems			3.190	1.467	1.488	1.524	1.923
RDT&E Articles Quantity							

A new project S385 was established for SOF Soldier Protection and Survival Systems beginning in FY 2009. FY 2009-2013 resources were moved from project S375, Weapons Systems Advanced Development. .

A. Mission Description and Budget Item Justification: This project provides for development, testing, and integration of specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF). Specialized equipment will improve survivability and mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. Sub-projects include:

- SOF Personal Equipment Advanced Requirements (SPEAR).
 - SPEAR Body Armor/Load Carriage Systems (BALCS). BALCS improves the survivability and mobility of SOF while conducting their varied missions. The BALCS will maximize ballistic protection, buoyancy compensation and load carrying capacity while minimizing the burden of weight, bulk and heat stress. Body armor efforts address the emerging ballistics threats, and the Load Carriage System efforts continue to provide the ability to modularize the load carriage systems for specific missions.
 - SPEAR Environmental Protection. SPEAR Environmental Protection allows the SOF operator to maintain effectiveness while operating in all environmental conditions (cold weather, jungle, alpine, maritime, etc). It allows the operator to tailor the environmental protection necessary to operate in extreme environmental conditions, while allowing for seamless transition between conditions.
 - SPEAR Next Generation Helmet Communications. The SPEAR Next Generation Helmet Communications effort will provide reliable helmet headset communications across multiple networks. The system will allow the operator to communicate using a variety of SOF-unique and Service Common communication systems and platform Internal Communication Systems (ICS) throughout a mission from insertion to extraction.

- SOF Tactical Combat Casualty Care Equipment (TCCCE). SOF TCCCE will reduce preventable battle deaths and minimize the effects of injuries by providing SOF-unique equipment for tactical trauma care.

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008
Appropriation/Budget Activity RDT&E BA # 7	SOF Soldier Protection and Survival Systems/Project S385	

B. Accomplishments/Planned Program										
Cost (\$ in million)				FY07		FY08		FY09		
SOF Personal Equipment Advanced Requirements (SPEAR) Body Armor/Load Carriage Systems Development								0.305		
RDT&E Articles Quantity										
FY09 Continues development of the next generation body armor. Completes development of SOF Backpack System.										
Cost (\$ in million)				FY07		FY08		FY09		
SPEAR Environmental Protection								0.407		
RDT&E Articles Quantity										
FY09 Continues development of Environment Protective Combat Uniform by beginning technology insertion and Developmental Testing of the SOF Modular Glove System.										
Cost (\$ in million)				FY07		FY08		FY09		
SPEAR Next Generation Helmet Communications								1.744		
RDT&E Articles Quantity										
FY09 Initiates development of Next Generation Helmet Communications Headsets.										
Cost (\$ in million)				FY07		FY08		FY09		
SOF Tactical Combat Casualty Care Equipment								0.734		
RDT&E Articles Quantity										
FY09 Initiates evaluation and qualification of new variations of SOF Surgeon and Casualty Evacuation kits.										
C. Other Program Funding Summary:										
		<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	To <u>Complete</u>	Total <u>Cost</u>
PROC, SOF Soldier Protection and Survival Systems				15.455	41.980	22.835	21.052	11.641	Cont.	Cont.
PROC, Small Arms and Weapons		51.367	86.709							
RDTE, S375 Weapons Systems Advanced Development		6.964	2.746							

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008
Appropriation/Budget Activity RDT&E BA # 7	SOF Soldier Protection and Survival Systems/Project S385	

D. Acquisition Strategy:

- SOF Personal Equipment Advanced Requirements (SPEAR) Body Armor/Load Carriage Systems Development. SPEAR is an evolutionary acquisition program that utilizes a variety of acquisition methods, including Commercial Off the Shelf (COTS), Modified COTS (MCOTS), Non Developmental Items and developmental acquisition strategies to accomplish program objectives. Many items will undergo spiral development to achieve continuous improvement and objective level requirements. Maximum use of Javits-Wagner-O'Day set asides (i.e., National Institute of the Severely Handicapped (NISH)) will be used.
- Environmental Protection. SOF environmental protection will be acquired using a Competitive Demonstration Model (CDM). The CDM teams commercial vendors with NISH production facilities to combine the strengths of the commercial garment industry with the domestic fabrication capabilities of NISH.
- Next Generation Helmet Communications. The Next Generation Helmet Communications will be acquired using full and open competitive procedures to acquire COTS or MCOTS items.
- SOF Tactical Combat Casualty Care Equipment (TCCCE). TCCCE will leverage Federal Drug Administration-approved COTS equipment and devices to provide modernized, standardized SOF medical lifesaving capabilities for use in austere environments during extended delays in casualty evacuation.

Exhibit R-3 RDT&E Project Cost Analysis						DATE: FEBRUARY 2008					
APPROPRIATION / BUDGET ACTIVITY				SOF Soldier Protection and Survival Systems/PE1160478BB							
RDT&E DEFENSE-WIDE / 7				SOF Soldier Protection and Survival Systems/S385							
Actual or Budget Value (\$ in millions)											
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	Budget Cost FY07	Award Date FY07	Budget Cost FY08	Award Date FY08	Budget Cost FY09	Award Date FY09	To Complete	Total Program
System Test and Evaluation											
SOF Personal Equipment Advanced Requirements (SPEAR) Body Armor Load Carriage Systems	Various	PM SOF Soldier Systems, Natick, MA						0.305	Various	Cont.	Cont.
SPEAR Environmental Protection	Various	PM SOF Soldier Systems, Natick, MA						0.407	Various	Cont.	Cont.
SPEAR Next Generation Helmet Communications	Various	PM SOF Soldier Systems, Natick, MA						1.190	Various	Cont.	Cont.
Tactical Combat Casualty Care Kits	Various	PM TCCC Ft. Detrick, MD						0.734	Various	Cont.	Cont.
Subtotal Product Dev			0.000	0.000			0.000	0.000	2.636	Cont.	Cont.
Remarks:											
Program Management											
Next Generation Helmet Communications	Various	PM SOF Soldier Systems, Natick, MA						0.554	Various	Cont.	Cont.
Subtotal Spt			0.000	0.000			0.000	0.554		Cont.	Cont.
Total Cost			0.000	0.000			0.000	3.190		Cont.	Cont.
Remarks:											

Exhibit R-4, RDT&E Program Schedule Profile														Date: FEBRUARY 2008																	
Appropriation/Budget Activity				Program Element Number and Name										Project Number and Name																	
RDT&E/7				PE1160478BB/Special Operations Forces (SOF) Soldier Protection and Survival Systems										Project S385/SOF Soldier Protection and Survival System																	
Fiscal Year				2007				2008				2009				2010				2011				2012				2013			
				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
SOF Personal Equipment Advanced Requirements (SPEAR) Body Armor/Load Carriage Systems																															
Body Armor P3I																															
Spiral Technology Insertion																															
SPEAR Next Generation Helmet Communications																															
Development Test (DT)/Operational Test (OT)																															
Milestone C																															
Initial Operational Capability																															
SPEAR Environmental Protection																															
Protective Combat Uniform Extremity Protection																															
Modular Glove System Technology Insertion																															
Milestone B																															
DT																															
OT																															
Milestone C																															
Protective Combat Uniform Product Improvement																															
Spiral Technology Insertion for Flame Resistance																															
Spiral Technology Insertion to Reduce Weight & Bulk																															
Tactical Combat Casualty Care Equipment Kit																															
Casualty Evacuation Kits																															
Evaluation and Qualification																															
Surgeon Kits																															

