

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY
0400: *Research, Development, Test & Evaluation, Defense-Wide*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE
PE 1160478BB: *Soldier Protection and Survival Systems*

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	4.521	2.647	4.263	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.431
S385: <i>Soldier Protection and Survival Systems</i>	4.521	1.776	3.383	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.680
S385A: <i>Theater Body Armor and Associated Equipment</i>	0.000	0.871	0.880	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.751

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

Beginning in FY 2014, this PE 1160478BB "Soldier Protection and Survival Systems" has been consolidated in SOCOM PE 1160431BB "Warrior Systems."The

National Defense Authorization Act of 2010 directed a separate project (S385A) be created for ballistic protection efforts within the existing program element.

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 SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods, and in locations requiring small unit autonomy.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	2.971	4.263	3.890	-	3.890
Current President's Budget	2.647	4.263	0.000	-	0.000
Total Adjustments	-0.324	0.000	-3.890	-	-3.890
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.247	-			
• SBIR/STTR Transfer	-0.077	-			
• Other Adjustments	-	-	-3.890	-	-3.890

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and Survival Systems
<u>Change Summary Explanation</u> Funding: FY 2012: Decrease of (-\$0.077) million is due to a funds transfer to Small Business Innovative Research and -(\$0.247) million was reprogrammed for higher command priorities. FY 2013: None. FY 2014: Decrease of of -\$3.890 million has been consolidated in SOCOM PE 1160431BB "Warrior Systems." Schedule: None. Technical: None.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S385: <i>Soldier Protection and Survival Systems</i>	4.521	1.776	3.383	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.680
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

- This project provides specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF) to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Special Tactics Operators; and Marine Forces Special Operations Command. Specialized equipment improves survivability protection from the environment and load bearing equipment to improve the 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.
- SOF Personal Equipment Advanced Requirements (SPEAR) program provides for the research, development, testing and evaluation of a variety of individual and survival equipment to include: ballistic and environmental protective systems, combat uniforms, load carriage systems, communications headsets, and visual augmentation system (VAS) mounts. NOTE: In compliance with the National Defense Authorization Act of 2010, resources to support ballistic protection efforts were moved from SPEAR to a separate project (S385A) beginning in FY 2012.
- Tactical Combat Casualty Care (TCCC) provides medical devices, ancillary equipment and Casualty Evacuation (CASEVAC) sets for SOF. The CASEVAC program procures a suite of Food and Drug Administration approved medical items including, but not limited, to intraosseous infusion devices, patient monitoring and assessment devices, emergency airway kits, as well as devices that provide SOF the capability to support extraction, extrication, mobility, transportation, and sustainment of casualties in forward areas. This program fields tactical medical and CASEVAC capabilities with the intention to transition capabilities developed under the National Mission Force Tactical Medical Programs. This capability provides significant ability to lessen battlefield losses by providing timely, critical lifesaving and evacuation capabilities to the forward-deployed SOF operators.
- Radio Counter-Improvised Explosive Device (RC-IED) program provides SOF with the ability to counter current and future radio controlled improvised explosive devices threats used by terrorist networks. NOTE: The RC-IED efforts were conducted in the program element 1160408BB. The resources for these efforts were split beginning in FY 2013 to support the SOF theater force requirements.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2012	FY 2013	FY 2014
Title: SPEAR	1.776	2.350	0.000
FY 2012 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and Survival Systems					PROJECT S385: Soldier Protection and Survival Systems		
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Continued Flame/Blast characterization testing of environmental protection clothing systems [was delayed due to lack of performance of current material solutions, maturity of technology and to leverage dollars spent from other Services]. Continued increased thermal protective capabilities of the protective combat uniform and validation of pre-planned product improvements (P3I). Completed characterization effects of temperature on high loft textiles. Continued development of lightweight/high performance materials for personal and load carriage equipment. Initiated testing of waterproof breathable materials. Conducted investigating perceptual encapsulation and load effects on survivability and marksmanship. Continued Radio Frequency, acoustics testing of Modular Integrated Communications Helmet individual communications headsets to enhance operator lethality and survivability. Initiated testing and validation of test methodologies for safety belts and lanyards used to protect the operator during mobility operations. Continued signature management testing in order to reduce operators’ visual signature on the battlefield.												
FY 2013 Plans: Provide continuation of profile refinement to support signature management, reactive fiber testing and material research for uniforms. Develops a solicitation for an advanced maritime communications system. Develop and test safety belt, lanyard efforts. In addition, test of nano-coatings for water repellency for individual equipment. Continue on-going prototype testing and research on load effects for survivability and marksmanship.												
Title: RC-IED										0.000	1.033	0.000
FY 2013 Plans: Provide for National Assessment Group test support to the RC-IED program. Support system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintain range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems.												
Accomplishments/Planned Programs Subtotals										1.776	3.383	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• 0607SPSS: Soldier Protection and Survival Systems	35.262	15.153	0.000		0.000	0.000	0.000	0.000	0.000	0.000	50.415	
Remarks												
D. Acquisition Strategy												
• SPEAR primarily takes advantage of modified commercial off- the- shelf (COTS) or non-developmental items (NDI) through open competition. The majority of SPEAR purchases are made with O&M.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
• TCCCE CASEVAC takes advantage of COTS equipment and/or NDI. A Fixed Firm Price Indefinite Delivery/Indefinite Quantity contract was awarded in the 4th quarter of FY 2011. • RC-IED - Resources support the completion of the FY 2011 initiated development and overall effectiveness and operational suitability testing of the SOF-Unique Next Generation Electronic Countermeasure (ECM) / Ground-Based, Counter Radio-Controlled Improvised Explosive Device Warfare (CREW) system. <u>E. Performance Metrics</u> N/A		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SPEAR MICH Land/ Maritime Communication System	Various	PM-SSES:Natick, MA	0.350	0.302	Mar 2012	0.109	Mar 2013	-		-		-	0.000	0.761	
Protective Combat Uniform (PCU)	Various	PM-SSES:Natick, MA	0.361	0.426	Feb 2012	0.500	Feb 2013	-		-		-	0.000	1.287	
Load Carriage System (LCS) and Backpacks	Various	PM-SSES:Natick, MA	0.050	-		0.200	Mar 2013	-		-		-	0.000	0.250	
Modular Glove System (MGS)	Various	PM-SSES:Natick, MA	0.000	-		0.100	Mar 2013	-		-		-	0.000	0.100	
Subtotal			0.761	0.728		0.909		0.000		0.000		0.000	0.000	2.398	

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Environmental Clothing Testing/P3I	Various	PM-SSES:Natick, MA	0.387	0.373	Feb 2012	0.150	Feb 2013	-		-		-	0.000	0.910	
Signature Management Profile Characterization	Various	PM-SSES:Natick, MA	0.300	0.249	Mar 2012	0.391	Mar 2013	-		-		-	0.000	0.940	
LCS/BAV/Backpack Material and Prototype Testing	Various	PM-SSES:Natick, MA	0.187	0.160	Feb 2012	0.100	Mar 2013	-		-		-	0.000	0.447	
MGS Testing	Various	PM-SSES:Natick, MA	0.000	-		0.100	Mar 2013	-		-		-	0.000	0.100	
Maritime Comms Testing	Various	PM-SSES:Natick, MA	0.310	0.266	Jan 2012	0.700	Jan 2013	-		-		-	0.000	1.276	
National Assessment Group RC-IED Test Support	Various	National Assesment Group:Kirkland AFB, NM and Fort Bragg, NC	0.000	-		1.033	Mar 2013	-		-		-	0.000	1.033	
Prior Year Funding	MIPR	PM-SSES:Natick, MA	2.576	-		0.000		-		-		-	0.000	2.576	

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>				PROJECT S385: <i>Soldier Protection and Survival Systems</i>				

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			3.760	1.048		2.474		0.000		0.000		0.000	0.000	7.282	

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.521	1.776	3.383	0.000	0.000	0.000	0.000	9.680	

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
<i>SPEAR Protective Combat Uniform (PCU)</i>																												
Reactive Fiber Testing																												
PCU P3I																												
Signature Management Profile Characterization																												
Materials Research																												
Modular Glove System																												
Market Research, Lightweight Power for Active Heating																												
<i>SPEAR MICH Comms</i>																												
Market Research/Interoperability Assessment																												
Maritime Comms Develop																												
<i>SPEAR LCS, Body Armor Vest (BAV and Backpacks)</i>																												
LCS/BAV/Backpack Material and Prototyping Testing																												
Safety Belt and Lanyard Test Methods																												
Testing Water Repellant Nanocoatings																												
Load Effects on Survivability																												
<i>RC-IED</i>																												
NAG RC-IED Test Support																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Operations Command			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SPEAR Protective Combat Uniform (PCU)</i>				
Reactive Fiber Testing	1	2012	4	2013
PCU P3I	1	2012	4	2017
Signature Management Profile Characterization	1	2012	4	2017
Materials Research	1	2012	4	2012
Modular Glove System	2	2013	4	2017
Market Research, Lightweight Power for Active Heating	1	2012	4	2012
<i>SPEAR MICH Comms</i>				
Market Research/Interoperability Assessment	1	2012	4	2017
Maritime Comms Develop	2	2012	4	2013
<i>SPEAR LCS, Body Armor Vest (BAV and Backpacks)</i>				
LCS/BAV/Backpack Material and Prototyping Testing	2	2012	4	2017
Safety Belt and Lanyard Test Methods	2	2012	4	2012
Testing Water Repellant Nanocoatings	2	2012	4	2013
Load Effects on Survivability	2	2012	4	2013
<i>RC-IED</i>				
NAG RC-IED Test Support	2	2013	4	2018

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and Survival Systems				PROJECT S385A: Theater Body Armor and Associated Equipment			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S385A: Theater Body Armor and Associated Equipment	0.000	0.871	0.880	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.751
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project provides specialized equipment to meet the unique soldier protection and survival requirements of SOF, to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Special Tactics Operators; and Marine Forces Special Operations Command. Specialized ballistic equipment improves survivability and load bearing equipment impacting the 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.												
This budget line enhances the SPEAR program by supporting body armor plates, soft armor, helmets, and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment. Creation of a separate project for ballistic protection efforts was directed in the National Defense Authorization Act of 2010.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SOF Personal Equipment Advanced Requirements (SPEAR)									0.871	0.880	0.000	
FY 2012 Accomplishments:												
Conducted high elevation ammunition testing and threat validation to assess effectiveness of fielded armor systems. Continued research on advanced NDI of body armor systems and material/density exploitation in support of a next generation armor plate and helmet. Conducted material testing and prototype evaluation of advanced body armor designs; baseline testing and development of specifications for a next generation helmet . Conducted market survey and evaluation of transparent ballistic lens products in preparation for development of a future Special Operations Eye Protection capability. Conducted helmet behind armor effects ballistic testing to assess performance of a fielded helmet system. Performed laboratory testing of helmet sensor technology with a fielded helmet.												
FY 2013 Plans:												
Continue foreign ammunition testing and threat validation to assess armor effectiveness. Continue the helmet design and blast studies. Conduct body armor material research and testing along with the soldier load analysis and on behind armor effects. Conduct evaluation of transparent armor products which include ballistic and optical testing of transition lenses. Initiate work on												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
anti-fogging technologies and continues development of low visibility eyewear to support future Special Operations Eye Protection capabilities.			
Accomplishments/Planned Programs Subtotals		0.871	0.880
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy SPEAR ballistic protection equipment takes advantage of modified commercial-off-the-shelf or non-developmental items acquired through full and open competition. Currently these SPEAR purchases are made with O&M. As USSOCOM requirements are different from those of the Services, items leveraged from industry are often on the cutting edge of technology and require substantial testing in the SOF environments. Some SPEAR ballistic systems have transitioned to the U.S. Army, other services and other government agencies.			
E. Performance Metrics N/A.			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and Survival Systems				PROJECT S385A: Theater Body Armor and Associated Equipment					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor	Various	PM-SSES:Natick, MA	-	-		0.300	Feb 2013	-		-		-	0.000	0.300	
Laser Eye Protection	Various	PM-SSES:Natick, MA	0.000	-		0.050	May 2013	-		-		-	0.000	0.050	
Subtotal			0.000	0.000		0.350		0.000		0.000		0.000	0.000	0.350	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor Testing	Various	PM-SSES:Natick, MA	0.000	0.568	Mar 2012	0.380	Mar 2013	-		-		-	0.000	0.948	
Lightweight Helmet Testing	Various	PM-SSES:Natick, MA	0.000	0.239	Mar 2012	0.100	Mar 2013	-		-		-	0.000	0.339	
Transparent Armor Testing	Various	PM-SSES:Natick, MA	0.000	0.064	Jan 2012	0.050	Jan 2013	-		-		-	0.000	0.114	
Subtotal			0.000	0.871		0.530		0.000		0.000		0.000	0.000	1.401	
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.871		0.880		0.000		0.000		0.000	0.000	1.751	
Remarks N/A.															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Body Armor (BA)																												
Market Survey (Pre-Solicitation)																												
Verification Testing (Pre-Validation)																												
Soldier Load Analysis Research and Perceptual Encapsulation																												
BA Materials/Testing																												
SPEAR Eye Protection																												
Market Survey																												
Ballistic & Optical Development of Transition Lenses																												
Anti-Fogging Development																												
Low Visibility Eyewear																												
SPEAR Ballistic/Life Support																												
Threat Validation																												
Foreign Ammunition Exploitation Testing																												
Non-Destructive Inspection Development & Testing																												
Helmet Design Research																												
Next Generation Helmet																												
Next Generation Lightweight Materials																												
Behind Armor Effects																												
Slow Impact Research																												
Material Development/Analysis																												
Blast Research																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Operations Command			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Body Armor (BA)				
Market Survey (Pre-Solicitation)	3	2012	3	2013
Verification Testing (Pre-Validation)	1	2012	1	2012
Soldier Load Analysis Research and Perceptual Encapsulation	1	2012	4	2013
BA Materials/Testing	1	2012	4	2014
SPEAR Eye Protection				
Market Survey	1	2012	4	2012
Ballistic & Optical Development of Transition Lenses	1	2012	4	2013
Anti-Fogging Development	1	2013	4	2015
Low Visibility Eyewear	1	2012	4	2013
SPEAR Ballistic/Life Support				
Threat Validation	1	2012	4	2017
Foreign Ammunition Exploitation Testing	1	2013	4	2017
Non-Destructive Inspection Development & Testing	1	2012	4	2012
Helmet Design Research	1	2012	4	2013
Next Generation Helmet	1	2015	4	2016
Next Generation Lightweight Materials	1	2015	4	2017
Behind Armor Effects	1	2012	4	2014
Slow Impact Research	1	2012	4	2012
Material Development/Analysis	1	2015	4	2017
Blast Research	1	2012	4	2014