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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 United States Special Operations Command **Date:** February 2015

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	0.000	15.691	20.573	25.342	-	25.342	20.243	17.875	16.182	20.520	Continuing	Continuing
S710: <i>Tactical Systems Development</i>	0.000	0.243	1.023	0.968	-	0.968	1.330	1.095	1.183	1.080	Continuing	Continuing
S700: <i>Communications Equipment and Electronics Systems</i>	0.000	3.264	4.230	6.352	-	6.352	6.266	6.379	6.495	7.579	Continuing	Continuing
S725: <i>Tactical Radio Systems</i>	0.000	1.811	3.670	2.618	-	2.618	1.692	1.687	1.710	4.717	Continuing	Continuing
S385: <i>Soldier Protection and Survival Systems</i>	0.000	2.441	2.554	2.898	-	2.898	2.096	1.871	2.372	2.348	Continuing	Continuing
S385A: <i>Body Armor and Associated Equipment</i>	0.000	1.504	1.973	1.547	-	1.547	1.349	1.299	1.299	1.649	Continuing	Continuing
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	0.000	-	1.709	2.333	-	2.333	0.743	-	-	-	Continuing	Continuing
S800: <i>Munitions Advanced Development</i>	0.000	3.386	0.519	0.522	-	0.522	0.529	0.535	0.541	0.542	Continuing	Continuing
D476: <i>Military Information Support Operations</i>	0.000	2.477	4.895	6.610	-	6.610	4.746	3.517	1.096	1.118	Continuing	Continuing
S375: <i>Weapons Systems</i>	-	0.565	-	1.494	-	1.494	1.492	1.492	1.486	1.487	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides for development, testing and integration of specialized equipment in the areas of automation, communication, radio, weapon, soldier protection and survival, visual augmentation, lasers and sensors, munition and military information support operations (MISO) systems. The efforts within this PE improve SOF warfighting capabilities by continuing efforts to develop smaller, lighter, more efficient and more robust capabilities. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability while, generally, being conducted in harsh environments for unspecified periods and in locations requiring small unit autonomy. Communications efforts will maintain a Command, Control, and Communications (C3) link between SOF Commanders and SOF Teams, and provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies and allied foreign forces. Efforts relating to soldier protection and survival requirements will improve survivability and mobility of SOF while conducting varied missions. Specialized visual augmentation, lasers and sensors will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. Munition efforts include advanced engineering operational system development and qualification efforts related to SOF-peculiar munitions and equipment. Additionally,

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MISO efforts include planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups and individuals. Warrior Systems specialized equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success. Tactical Systems Development: This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of SOF. Tactical systems provide forward deployed forces with advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and command and control (C2) of forces. Communications Equipment and Electronics Systems: This project provides for communication systems to meet emergent requirements to support SOF. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, SOF Communications Equipment and Electronics is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities. Tactical Radio Systems: This project is for development of all SOF tactical radio programs. SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility. United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. SOF Tactical Radios provide the critical C3 link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied/coalition forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed (C2) communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments. Weapons Systems: This project provides for next generation system development and pre-planned product improvements (P3I), testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of SOF. Efforts include muzzle brakes and suppressors and P3I for assault, sniper, and crew served weapons leveraging the latest technological advances to achieve overmatch capability against emerging threats. Soldier Protection and Survival Systems:		

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>		R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
This project provides for development, testing, and integration of specialized equipment to meet the unique soldier protection and survival requirements of SOF. Specialized equipment will improve survivability and mobility of SOF while conducting varied missions. Current efforts include, but are not limited to counter-improvised explosive device system improvements and testing to meet continually changing technology on the battlefield. Body Armor and Associated Equipment: This project provides specialized equipment with ballistic protection to meet the unique soldier protection and survival requirements of SOF. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. This project enhances the SOF Personal Equipment Advanced Requirements (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 to meet current ballistic threats that exists on the battlefield. Visual Augmentation, Lasers and Sensor Systems: This project provides for development, testing, and integration of specialized visual augmentation, laser and sensor systems equipment to meet the unique requirements of SOF. Programs in this area include binocular/monocular devices and visual augmentation to include next generation laser designation and geo-location systems. Munitions Development: This project provides for the advanced engineering, operational system development, and qualification efforts related to SOF-peculiar and Foreign/Non-standard munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). Testing is in accordance with the USSOCOM IM Strategic Plan. Funding also supports efforts to develop and improve Stand-Off Precision Guided Munitions (SOPGM), including the development and integration of improved warheads, seeker, guidance navigation and control systems, operational flight software and missile delivery to meet SOF requirements. MISO: This project provides for the development, test and integration of MISO equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct the seven phase MISO process (planning, targeting audience analysis, series development, product development and design, approval, production/distribution/dissemination, and measures of effectiveness) in support of combatant commanders.		

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	14.973	24.661	25.963	-	25.963
Current President's Budget	15.691	20.573	25.342	-	25.342
Total Adjustments	0.718	-4.088	-0.621	-	-0.621
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-4.088			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.718	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.621	-	-0.621

Change Summary Explanation

Funding:

FY2014: Net increase of \$0.718 million is for a reprogramming of \$0.566 million to support development and testing of the SPEAR program, \$0.182 million to support testing for signature reduction efforts in a Weapons Accessories program; and a reprogramming (-\$0.030 million) to support higher command priorities.

FY2015: Decrease of -\$4.088 million is due to a Congressional Directed Reduction to the Long range MISO program.

FY2016: Decrease of -\$0.621 million is due to a realignment of -\$0.437 million to higher command priorities and a decrease of -\$0.184 million due to Departmental economic assumption decrease.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S710 / Tactical Systems Development			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S710: Tactical Systems Development	-	0.243	1.023	0.968	-	0.968	1.330	1.095	1.183	1.080	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized automation equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.												
- The Tactical Local Area Network (TACLAN) provides SOF operational commanders and forward deployed forces advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and command and control of forces. The project consists of Suites, Mission Planning Kits and Field Computing Devices, Coalition Local Area Network, and Full Motion Video Kits.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Title: TACLAN Suites										0.243	1.023	0.968
FY 2014 Accomplishments: Begin development, integration, and testing of Evolutionary Technology Insertions (ETI) such as advanced hardware equipment and new software applications.												
FY 2015 Plans: Begin development, integration, and testing of ETI for Secure Data At Rest, secure wireless and cross domain solutions.												
FY 2016 Plans: Continues development, integration, and testing of ETI for Secure Data At Rest, secure wireless and cross domain solutions.												
Accomplishments/Planned Programs Subtotals										0.243	1.023	0.968
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• PROC: OTHER ITEMS <\$5M	73.141	106.675	79.149	-	79.149	70.287	71.149	84.526	80.958	Continuing	Continuing	

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015	
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>			Project (Number/Name) S710 / <i>Tactical Systems Development</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2016</u>	<u>FY 2016</u>	<u>FY 2016</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
D. Acquisition Strategy											
The TACLAN program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S710 / <i>Tactical Systems Development</i>					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Secure Data / Wireless Capability	Reqn	iGov : Tampa, FL	-	0.243	Feb 2014	1.023	May 2015	0.968	Jan 2016	-		0.968	Continuing	Continuing	-
Subtotal			-	0.243		1.023		0.968		-		0.968	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.243		1.023		0.968		-		0.968	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S710 / Tactical Systems Development</i>
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FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
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

TACLAN SUITES	
Secure Data / Wireless Capability	

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TACLAN SUITES				
Secure Data / Wireless Capability	2	2014	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S700 / Communications Equipment and Electronics Systems			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S700: Communications Equipment and Electronics Systems	-	3.264	4.230	6.352	-	6.352	6.266	6.379	6.495	7.579	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). Communications Equipment and Electronics Systems is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.

USSOCOM's C4 systems comprise an integrated network of systems providing positive command and control and the timely exchange of information to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration within the Global Information Grid (GIG). The GIG is a multitude of existing and projected national assets that allows SOF elements to operate with any force combination in multiple environments.

- SOF Deployable Node (SDN) is a family of deployable, super high frequency, multi-band, Satellite Communications (SATCOM) systems providing the transport path for high-capacity, voice, data, video tele-conferencing (VTC), and full motion video at all levels of classification. It consists of SDN subprograms, transport for intelligence variants, technology insertions and capital equipment replacement.
- The Special Communications Enterprise (SCE) program includes organizations, practices, processes, services, networks, systems and subsystems that manage and provide clandestine exchange of information between elements (field-to-field, field-to-base, base-to-field) for worldwide deployed SOF units, often in austere environments with heavy adversarial monitoring. This program transitioned from Program Element 1160402BB, Special Operations Advanced Technology Development.

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

	FY 2014	FY 2015	FY 2016
Title: SDN	1.092	2.394	2.806
FY 2014 Accomplishments: Continued to develop, test and evaluate next generation systems and components to enhance the SDN family of systems and integrate Evolutionary Technology Insertions (ETI), such as a wide-band SATCOM-on-the-Move ground capability, extension of SOF Information Enterprise services, and acceleration hardware and software.			
FY 2015 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7				R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Assess, test and evaluate advanced antenna design and performance. Conduct market research on multi-level security solutions for SDN application. Conduct testing using wideband global SATCOM and Global Express. Assess Advanced Extremely High Frequency band.												
FY 2016 Plans: Assesses, tests and evaluates advanced antenna design and performance. Continues to integrate ETIs.												
Title: SCE										2.172	1.836	3.546
FY 2014 Accomplishments: Began segment development for the SCE enterprise; developed means and methods to provide near-term impact to operators.												
FY 2015 Plans: Continue segment development for the SCE enterprise; develop means and methods to provide near-term impact to operators.												
FY 2016 Plans: Continues segment development for the SCE enterprise; develops means and methods to provide near-term impact to operators. Increases emphasis on developing anti-intrusion/anti-tamper capabilities.												
Accomplishments/Planned Programs Subtotals										3.264	4.230	6.352
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• PROC/0204Warrior: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
- SDN is a fielded program with ETIs into all variants: heavy, medium, and light, wideband SATCOM-On-The-Move, Mobile SOF Strategic Entry Point, and airborne Intelligence Surveillance Reconnaissance transport variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support. - SCE is an ETI effort to provide and support multiple field segment kits. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.												

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command		Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>
<u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S700 / Communications Equipment and Electronics Systems					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF Deployable Node (SDN) Development	MIPR	Various : Various	0.000	1.092	Mar 2014	1.194	Mar 2015	1.496	Mar 2016	-		1.496	Continuing	Continuing	-
SDN Market Research & Evaluation	MIPR	CERDEC : Aberdeen, MD	0.000	-		1.200	Jan 2015	1.310	Dec 2015	-		1.310	Continuing	Continuing	-
Special Communications Enterprise (SCE) Enterprise and Field Segment Capability Development	TBD	Various : Various	0.000	1.612	Jan 2014	1.272	Jan 2015	2.978	Feb 2016	-		2.978	Continuing	Continuing	-
SCE Base End Segment Capability Development	MIPR	MITRE : Bedford, MA	0.000	0.280	Dec 2013	0.282	Dec 2014	0.284	Dec 2015	-		0.284	Continuing	Continuing	-
Subtotal			0.000	2.984		3.948		6.068		-		6.068	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SCE Independent Verification and Validation	MIPR	MITRE : Bedford, MA	0.000	0.280	Mar 2014	0.282	Mar 2015	0.284	Mar 2016	-		0.284	Continuing	Continuing	-
Subtotal			0.000	0.280		0.282		0.284		-		0.284	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	3.264		4.230		6.352		-		6.352	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command										Date: February 2015			
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>					Project (Number/Name) <i>S700 / Communications Equipment and Electronics Systems</i>			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>SOF Deployable Node</i>																												
SOF Deployable Node (SDN) Development																												
SDN Market Research and Testing																												
<i>Special Communications Enterprise (SCE) Program</i>																												
Enterprise Segment Services Development																												
Field Segment Kit Development																												
Base-End Segment Capabilities Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Deployable Node</i>				
SOF Deployable Node (SDN) Development	2	2014	4	2020
SDN Market Research and Testing	2	2015	4	2020
<i>Special Communications Enterprise (SCE) Program</i>				
Enterprise Segment Services Development	2	2014	4	2020
Field Segment Kit Development	2	2014	4	2020
Base-End Segment Capabilities Development	2	2014	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S725 / Tactical Radio Systems			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S725: Tactical Radio Systems	-	1.811	3.670	2.618	-	2.618	1.692	1.687	1.710	4.717	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project is for development of all SOF tactical radio programs. Tactical Radios provide the critical Command, Control, Communications (C3) link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios, which includes SOF Tactical Communications, and Blue Force Tracking, rapidly and seamlessly establish and maintain mobile and fixed Command and Control (C2) communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

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

	FY 2014	FY 2015	FY 2016
Title: SOF Tactical Communications (STC)	1.811	1.672	1.653
FY 2014 Accomplishments: Continued developing and testing DoD on-orbit capacity in order to enhance C2 capabilities.			
FY 2015 Plans: Develop and test new capability in tactical radio equipment.			
FY 2016 Plans: Develops and tests new capability in tactical radio equipment.			
Title: Blue Force Tracking (BFT)	-	1.998	0.965
FY 2015 Plans: Develop and test new capability in BFT equipment.			
FY 2016 Plans: Continues to develop and test new capability in BFT equipment.			
Accomplishments/Planned Programs Subtotals	1.811	3.670	2.618

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• 0204Warrior: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>	

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Remarks											

D. Acquisition Strategy

- STC is a Commercial-Off-The-Shelf/Now-Development Item program with evolutionary technology insertions (ETIs). Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.
- BFT is a fielded program with ETIs leveraging commercial and other government agency sources for required certifications, functional and operational tests, and technology updates.

E. Performance Metrics

N/A.

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PE 1160431BB: *Warrior Systems*
United States Special Operations Command

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>SOF Tactical Communications (STC)</i>																												
STC Radio Development																												
<i>Blue Force Tracking (BFT)</i>																												
BFT Capability Improvement Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Tactical Communications (STC)</i>				
STC Radio Development	2	2014	4	2020
<i>Blue Force Tracking (BFT)</i>				
BFT Capability Improvement Development	3	2015	2	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S385 / Soldier Protection and Survival Systems			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S385: Soldier Protection and Survival Systems	-	2.441	2.554	2.898	-	2.898	2.096	1.871	2.372	2.348	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 Operators; and Marine Forces Special Operations Command. Specialized equipment improves survivability protection from the environment by providing the operator with hearing protection and clothing systems as well load bearing equipment to improve the mobility of SOF while conducting varied missions and personnel safety equipment such as harnesses and safety retention devices. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.

SOF Personal Equipment Advanced Requirements (SPEAR) 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 mounts.

Tactical Combat Casualty Care (TCCC) provides medical devices, ancillary equipment and Casualty Evacuation (CASEVAC) sets for SOF. The CASEVAC 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.

Counter Radio Controlled-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.

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

	FY 2014	FY 2015	FY 2016
Title: SPEAR	1.080	0.917	1.384
FY 2014 Accomplishments:			
Continued profile refinement to support signature management, reactive fiber testing and material research for uniforms.			
Continued research and development solicitation for an advanced maritime communications system material solution. Continued			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command		Date: February 2015		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. FY 2015 Plans: Continue profile refinement to support signature management and material research for uniforms. Continue testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. Continue on-going prototype testing. Address emerging SOF-unique requirements as SOF transitions from heavy deployments in Iraq and Afghanistan to a global focus. Continue maritime communication headset solicitation. FY 2016 Plans: Initiates research and development of a land communications material solution, safety belt and lanyard solicitations, Arctic capability gap solutions, and subsurface operations equipment. Continues materials testing.				
Title: TCCC FY 2014 Accomplishments: Provided for test support to include program management, market surveys, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC. Evaluated lightweight enhanced patient packaging litter systems for inclusion in the CASEVAC. Supported system prototype development, testing and research on advanced tactical medical equipment to lessen battlefield losses, with the goal of transitioning these medical technology items to a program of record. FY 2015 Plans: Provide for test support to include program management, market surveys, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC. Continue evaluation, airworthiness certification and miniaturization of TCCC CASEVAC components. Support system prototype development, testing and research on advanced tactical medical equipment to lessen battlefield losses, with the goal of transitioning these medical technology items to a program of record. FY 2016 Plans: Provides for test support to include program management, market surveys, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC. Supports the evaluation of enhanced medical monitoring systems for incorporation into the CASEVAC. Develops and tests water resistant solutions for maritime operations of components within the CASEVAC.		0.333	0.560	0.444
Title: RC-IED FY 2014 Accomplishments:		1.028	1.077	1.070

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command							Date: February 2015		
Appropriation/Budget Activity 0400 / 7				R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>			Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Provided for National Assessment Group test support to the Counter RC-IED program. Supported system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintained range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems. <i>FY 2015 Plans:</i> Provide for National Assessment Group test support to the Counter 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. <i>FY 2016 Plans:</i> Provide for National Assessment Group test support to the Counter RC-IED program. Supports system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintains range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems. Initiates development and testing of ECM systems capability and advanced software technique counter measures.			
Accomplishments/Planned Programs Subtotals	2.441	2.554	2.898

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing
Remarks											
D. Acquisition Strategy N/A											
E. Performance Metrics N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S385 / Soldier Protection and Survival Systems					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF Personal Equipment Advanced Requirements (SPEAR) - MICH/Land Maritime Communication System	Various	PM-SSES : Natick, MA	0.000	0.218	Jun 2014	0.240	Mar 2015	0.415	Jan 2016	-		0.415	Continuing	Continuing	-
SPEAR - Protective Combat Uniform (PCU)	Various	PM-SSES : Natick, MA	0.000	0.100	Apr 2014	0.095	Feb 2015	0.139	Jan 2016	-		0.139	Continuing	Continuing	-
SPEAR - Load Carriage System (LCS) and Backpacks	Various	PM-SSES : Natick, MA	0.000	0.035	Feb 2014	-		-		-		-	-	0.035	-
SPEAR - Modular Glove System (MGS)	Various	PM-SSES : Natick, MA	0.000	0.040	Apr 2014	-		-		-		-	-	0.040	-
Subtotal			0.000	0.393		0.335		0.554		-		0.554	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 - PCU testing/P3I	Various	PM/SSSES : Natick, MA	0.000	0.135	Jun 2014	0.050	Jan 2015	0.070	Mar 2016	-		0.070	Continuing	Continuing	-
SPEAR - Signature Management Profile Characteristics	Various	PM-SSES : Natick, MA	0.000	0.065	Jun 2014	0.065	Jan 2015	0.097	Feb 2016	-		0.097	Continuing	Continuing	-
SPEAR - LCS/Body Armor Vest/Backpack Material and Prototype Testing	Various	PM-SSES : Natick, MA	0.000	0.020	Apr 2014	0.018	Jan 2015	0.028	Feb 2016	-		0.028	Continuing	Continuing	-
SPEAR - MGS Testing	Various	PM-SSES : Natick, MA	0.000	0.025	May 2014	0.025	Feb 2015	0.043	Feb 2016	-		0.043	Continuing	Continuing	-
SPEAR - Maritime Comms Testing	Various	PM-SSES : Natick, MA	0.000	0.442	May 2014	0.424	Feb 2015	0.592	Jan 2016	-		0.592	Continuing	Continuing	-
TCCC CASEVAC Sets	Various	PM-SSES : Natick, Ma	0.000	0.333	Mar 2014	0.560	Feb 2015	0.444	Mar 2016	-		0.444	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>					

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Counter RC-IED Test Support	Various	National Assessment Group : Kirtland AFB, NM	0.000	1.028	Jan 2014	1.077	Dec 2014	1.070	Jan 2016	-		1.070	Continuing	Continuing	-
Subtotal			0.000	2.048		2.219		2.344		-		2.344	-	-	-

	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	2.441		2.554		2.898		-		2.898	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command							Date: February 2015			
Appropriation/Budget Activity 0400 / 7				R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>		

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>																												
PCU Testing/Development																												
<i>SPEAR-Signature Management</i>																												
Signature Management Profile Characterization																												
<i>SPEAR-Modular Glove System</i>																												
Development and Test																												
<i>SPEAR-MICH Comms</i>																												
Market Research/Interoperability Assessment																												
<i>SPEAR-Maritime Comms</i>																												
Various tests																												
<i>SPEAR-Load Carriage System/Vests and Backpacks</i>																												
Material Research and Prototype testing																												
<i>Tactical Combat Casualty Care Evacuation Kits -CASEVAC</i>																												
Prototype development testing and Airworthiness Certification																												
<i>Radio Controlled-Improvised Explosive Device</i>																												
National Assessment Group Test Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) 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>				
PCU Testing/Development	3	2014	3	2020
<i>SPEAR-Signature Management</i>				
Signature Management Profile Characterization	3	2014	2	2020
<i>SPEAR-Modular Glove System</i>				
Development and Test	3	2014	2	2020
<i>SPEAR-MICH Comms</i>				
Market Research/Interoperability Assessment	3	2014	4	2020
<i>SPEAR-Maritime Comms</i>				
Various tests	3	2014	4	2020
<i>SPEAR-Load Carriage System/Vests and Backpacks</i>				
Material Research and Prototype testing	3	2014	4	2020
<i>Tactical Combat Casualty Care Evacuation Kits -CASEVAC</i>				
Prototype development testing and Airworthiness Certification	2	2014	4	2020
<i>Radio Controlled-Improvised Explosive Device</i>				
National Assessment Group Test Support	2	2014	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S385A / Body Armor and Associated Equipment			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S385A: Body Armor and Associated Equipment	-	1.504	1.973	1.547	-	1.547	1.349	1.299	1.299	1.649	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 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 project enhances the SOF Personal Equipment Advanced Requirement (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.

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

	FY 2014	FY 2015	FY 2016
Title: SPEAR-Ballistic Protection	1.504	1.973	1.547
FY 2014 Accomplishments: Continued foreign ammunition testing and threat validation to assess armor effectiveness. Continued the helmet behind armor effects studies to develop a helmet test methodology and corresponding performance metrics. Continued lightweight body armor material research and testing to include clandestine. Continued evaluation of transparent armor products which include ballistic and optical testing of photochromic, electrochromic and laser lenses. Continued work on anti-fogging technologies and testing. Tested mature soldier worn sensors and non-destructive inspection technologies.			
FY 2015 Plans: Continue foreign ammunition testing and threat validation to assess armor effectiveness. Research and test soldier worn sensors. Continue lightweight body armor material research and improved performance ballistic plates. Continue evaluation of transparent armor products which include ballistic and optical testing of photochromic, electrochromic and laser lenses. Continue work on anti-fogging technologies and testing. Address emerging SOF-unique requirements as SOF transitions from heavy deployments in Iraq and Afghanistan to a global focus.			
FY 2016 Plans: Continues foreign ammunition testing and threat validation to assess effectiveness of currently fielded personal protective equipment. Continues development and testing of lightweight body armor and helmets to upgrade systems that have been fielded. Continues evaluation of transparent armor products which include variable light transmission, anti-fogging, ballistic, and			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7				R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
laser lenses to upgrade systems that have been fielded. Develops and tests soldier worn sensors to upgrade armor systems that have been fielded and to refine SOF peculiar requirements. Addresses emerging SOF unique requirements as SOF transitions from deployments in Iraq and Afghanistan to a global focus.												
Accomplishments/Planned Programs Subtotals										1.504	1.973	1.547
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• PROC1: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing	
Remarks												
D. Acquisition Strategy N/A												
E. Performance Metrics N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems						Project (Number/Name) S385A / Body Armor and Associated Equipment			
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF Personal Equipment Advanced Requirement (SPEAR) - Body Armor	Various	PM-SSES : Natick, MA	0.000	0.350	Apr 2014	0.300	Feb 2015	0.421	Jan 2016	-		0.421	-	-	-
SPEAR - Lightweight Ballistic Helmets	Various	PM-SSES : Natick, MA	0.000	0.300	May 2014	0.600	Jan 2015	0.365	Jan 2016	-		0.365	-	-	-
SPEAR - Eye Protection	Various	PM-SSES : Natick, MA	0.000	0.030	May 2014	0.040	Feb 2015	0.150	Mar 2016	-		0.150	-	-	-
Subtotal			0.000	0.680		0.940		0.936		-		0.936	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 - Body Armor Test	Various	PM-SSES : Natick, MA	0.000	0.489	Mar 2014	0.250	Jan 2015	0.211	Feb 2016	-		0.211	-	-	-
SPEAR - Lightweight Helmet Testing	Various	PM-SSES : Natick, MA	0.000	0.300	Mar 2014	0.725	Jan 2015	0.350	Feb 2016	-		0.350	-	-	-
SPEAR - Transparent Armor Testing	Various	PM-SSES : Natick, MA	0.000	0.035	Mar 2014	0.058	Mar 2015	0.050	Jan 2016	-		0.050	-	-	-
Subtotal			0.000	0.824		1.033		0.611		-		0.611	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	1.504		1.973		1.547		-		1.547	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>	

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>SOF Personal Equipment Advanced Requirements (SPEAR)-Body Armor</i>																												
Body Armor Development																												
Body Armor Material Testing																												
<i>SPEAR Eye Protection</i>																												
Transparent Armor Development																												
Transparent Armor Testing																												
<i>SPEAR-Helmet</i>																												
Lightweight Ballistic Helmet Development																												
Lightweight Ballistic Helmet Materials Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Personal Equipment Advanced Requirements (SPEAR)-Body Armor</i>				
Body Armor Development	3	2014	4	2020
Body Armor Material Testing	2	2014	3	2020
<i>SPEAR Eye Protection</i>				
Transparent Armor Development	3	2014	4	2020
Transparent Armor Testing	2	2014	4	2020
<i>SPEAR-Helmet</i>				
Lightweight Ballistic Helmet Development	3	2014	4	2020
Lightweight Ballistic Helmet Materials Testing	2	2014	2	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S395 / Visual Augmentation, Lasers and Sensor Systems			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S395: Visual Augmentation, Lasers and Sensor Systems	-	-	1.709	2.333	-	2.333	0.743	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for development, testing and integration of specialized visual augmentation, binocular and monocular night vision devices, laser markers, laser designators, geo-location systems, weapon optics, weapon aiming lasers, sensor systems, visible lights, infrared imagers, clandestine pointers, and accessories to meet the unique requirements of SOF. Sensor technology being developed includes image intensification (I2) thermal imaging, short wave infrared (SWIR), multi-spectral, fusion, and other sensor types. Developments will decrease weight, increase range, increase situational awareness, provide data, image processing, image filtering, determine wind speed, observe bullet trace, and sensor fusion to be able to detect, identify, classify and engage targets at greater ranges. These projects ensure SOF systems shall remain technologically superior to enemy threats to ensure mission success.

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

	FY 2014	FY 2015	FY 2016
Title: Visual Augmentation Systems	-	1.709	2.333
FY 2015 Plans: Continue the development of visual augmentation and laser devices to improve situational awareness, sharing of data/images and target acquisition.			
FY 2016 Plans: Continues to develop visual augmentation and laser devices to improve situational awareness, sharing of data/images and target acquisition.			
Accomplishments/Planned Programs Subtotals			
	-	1.709	2.333

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC/1: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing
Remarks											

D. Acquisition Strategy

To develop prototypes for the next generation SOF operator-borne visual augmentation devices. These developmental efforts will leverage Science and Technology projects to develop prototype systems for SOF to evaluate and an Indefinite Delivery Indefinite Quantity production contract.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command		Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>
<u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command													Date: February 2015		
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Visual Augmentation Systems (VAS) Development	C/CPFF	USSOCOM : Tampa, FL	0.000	-		1.709	Jan 2015	1.000	Nov 2015	-		1.000	-	2.709	-
Subtotal			0.000	-		1.709		1.000		-		1.000	-	2.709	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
VAS Testing	C/CPFF	USSOCOM : Tampa, FL	0.000	-		-		1.333	May 2016	-		1.333	Continuing	Continuing	-
Subtotal			0.000	-		-		1.333		-		1.333	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		1.709		2.333		-		2.333	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command										Date: February 2015			
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>					Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>Visual Augmentation System (VAS)</i>																												
VAS Development																												
VAS Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Visual Augmentation System (VAS)</i>				
VAS Development	2	2015	4	2016
VAS Testing	3	2016	3	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S800 / Munitions Advanced Development			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S800: Munitions Advanced Development	-	3.386	0.519	0.522	-	0.522	0.529	0.535	0.541	0.542	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment to meet the unique requirements of SOF.												
Munitions Advanced Development. This program provides for Insensitive Munitions (IM) technology development and evaluations that allows SOF munitions to pass testing which includes bullet impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations IM Testing Plan. Munitions product improvements are tested in accordance with command priorities.												
Stand-Off Precision Guided Munitions (SOPGM) provides for the development and improvement of SOF-unique SOPGMs.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2014	FY 2015	FY 2016	
Title: Munitions Advanced Development									0.453	0.519	0.522	
FY 2014 Accomplishments: Conducted proof of concept and IM testing on various munitions. Continued full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).												
FY 2015 Plans: Conduct proof of concept and IM testing on various munitions. Continue full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).												
FY 2016 Plans: Conducts proof of concept and IM testing on various munitions. Continues full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).												
Title: SOPGM									2.933	-	-	
FY 2014 Accomplishments:												

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7				R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S800 / <i>Munitions Advanced Development</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Completed efforts to integrate target seeker, warhead and guidance system technology upgrades for precision guided munitions, and evaluates first pass lethality performance improvements in laboratory and test range inert round, captive carry and live-fire flight tests.												
Accomplishments/Planned Programs Subtotals										3.386	0.519	0.522
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• PROC1: <i>Ordnance Items</i>	168.037	173.209	142.724	-	142.724	133.977	125.920	148.245	151.383	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Munitions Advanced Development: Munitions and packaging redesign shall take place within government laboratories, as well as in industry, depending on the munitions. IM solutions shall be tested on a small scale for proof of principle.												
SOPGM: Using incremental approach to increase munitions performance, leverage industry's Internal Research and Development innovative efforts and existing and new contracts to improve warhead, seeker, guidance navigation and control system, and missile delivery packaging. Solutions will be tested at comparative demonstrations and/or flight test events.												
E. Performance Metrics												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
0400 / 7						PE 1160431BB / Warrior Systems				S800 / Munitions Advanced Development					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Munitions Advanced Development - Obtain Munitions Test Articles	C/FFP	General Dynamics: : Canada	0.000	0.125	Jan 2014	0.139	Jan 2015	0.141	Oct 2015	-		0.141	-	-	-
Munitions Advanced Development - Insensitive Munitions (IM) Evaluation	C/FFP	US Air Force Air Armaments Center : Eglin, AFB, FL	0.000	0.050	Jan 2014	0.055	Jan 2015	0.057	Oct 2015	-		0.057	-	-	-
Munitions Advanced Development - IM Testing	Allot	ARDEC: : Picatinny Arsenal, NJ	0.000	0.278	Jan 2014	0.325	Jan 2015	0.324	Oct 2015	-		0.324	-	-	-
Stand-Off Precision Guided Munitions	Allot	Various : Various	0.000	2.933	Aug 2014	-		-		-		-	-	-	-
Subtotal			0.000	3.386		0.519		0.522		-		0.522	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	3.386		0.519		0.522		-		0.522	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command																Date: February 2015			
Appropriation/Budget Activity 0400 / 7								R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>								Project (Number/Name) S800 / <i>Munitions Advanced Development</i>			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>Munitions Advanced Development</i>																												
Purchase Test Articles																												
Evaluation of Munition test articles																												
Munitions Testing																												
<i>Stand-Off Precision Guided Munitions</i>																												
Evaluate Lethality Upgrades																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Munitions Advanced Development</i>				
Purchase Test Articles	2	2014	4	2020
Evaluation of Munition test articles	2	2014	4	2020
Munitions Testing	2	2014	4	2020
<i>Stand-Off Precision Guided Munitions</i>				
Evaluate Lethality Upgrades	4	2014	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) D476 / Military Information Support Operations			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
D476: Military Information Support Operations	-	2.477	4.895	6.610	-	6.610	4.746	3.517	1.096	1.118	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for the development and acquisition of Military Information Support Operations (MISO) equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct MISO in support of combatant commanders.

- Prior to FY 2015, the MISO Broadcast Systems (MISOB) consisted of the Media Production Center (MPC) Family of Systems (FoS); Product Distribution System (PDS); Fly Away Broadcast System (FABS); and the Long Range Broadcast System (LRBS). Starting in FY 2015 the MISO Broadcast System will be split into these individual programs of records. These systems provide fixed or deployable technologies that fulfill the requirements of the MISO seven phase processes in support to theater commanders. This project is comprised of several interfacing systems that can stand alone or inter-operate with other MISO systems as determined by mission requirements and includes:
- Media Production and Broadcast Systems support the MPC and FABS MISO missions. The MPC includes the fixed site MPC with light and medium media production capability. FABS is a transit case fly-away broadcast system that consists of a combination of amplitude modulation (AM), frequency modulation (FM), shortwave (SW), and television (TV) transmitters, and radio/TV production systems.
- LRBS is a family of broadcast systems intended to be integrated to multiple unmanned, long-loiter aerial systems with the capability of broadcasting in AM, FM, SW, TV, Very High Frequency (VHF), TV Ultra High Frequency (UHF) and cellular (Short Message Service, Multi-Media Messaging Service, and Voice). This system provides the capability of broadcasting MISO messages via multiple mediums into denied foreign areas.
- PDS provides the satellite communications (SATCOM) transport path for the worldwide Military Information Support Operations (MISO) architecture. PDS consists of three variants that are used at different levels of command from the Media Operations Complex (MOC) to the Tactical MISO Teams in order to link MISO planners with review/approval authorities, production facilities, and dissemination elements.

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

	FY 2014	FY 2015	FY 2016
Title: Media Production and Broadcast System	2.477	2.280	2.074
FY 2014 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Continued primary hardware development, systems engineering, and test and evaluation on product distribution technology. Tested and evaluated new systems and components to enhance MISO product. Integrated and disseminated new analytical software tools to enhance production supporting MISO target audience assessment and measures of effectiveness requirements. FY 2015 Plans: Continue primary hardware development, systems engineering, and test and evaluation on product distribution technology. Test and evaluate new systems and components to enhance MISO product. Integrate and disseminate new analytical software tools to enhance production supporting MISO target audience assessment and measures of effectiveness requirements. FY 2016 Plans: Tests and evaluates new systems and components to enhance MISO product. Integrates and disseminates new analytical software tools to enhance production supporting MISO target audience assessment and measures of effectiveness requirements.			
Title: LRBS FY 2015 Plans: Begin primary hardware development, system engineering, and test and evaluation of pod-based FM and cellular broadcast, power, and antenna technologies. FY 2016 Plans: Continues with primary hardware development, systems engineering, and test and evaluation of pod-based FM and cellular broadcast, power, and antenna technologies.	-	1.416	4.536
Title: PDS FY 2015 Plans: Continue to evaluate advance technology, and test and evaluate new PDS / SOF Deployable Node (SDN-P) components integrating audio/visual capabilities for enhanced distribution and delivery of MISO products.	-	1.199	-
Accomplishments/Planned Programs Subtotals	2.477	4.895	6.610

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1/0204OTHER: OTHER ITEMS <\$5M	73.141	106.675	79.149	-	79.149	70.287	71.149	84.526	80.958	Continuing	Continuing
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command		Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>
<u>D. Acquisition Strategy</u> • The Media Production and Broadcast system program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support. • The LRBS program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support. • The PDS program has an evolutionary acquisition strategy. Commercial and government agency sources will continue to be leveraged for required certifications, functional and operational tests, and acceptance support. <u>E. Performance Metrics</u> N/A.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) D476 / Military Information Support Operations					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Media Production and Broadcast Systems	TBD	TBD : TBD	-	2.477	Mar 2014	2.280	Jan 2015	2.074	Apr 2016	-		2.074	Continuing	Continuing	-
Product Distribution System	TBD	Various : Various	-	-		1.199	Apr 2015	-		-		-	-	1.199	-
Long Range Broadcast System	TBD	TBD : TBD	-	-		1.416	Apr 2015	4.536	Jan 2016	-		4.536	Continuing	Continuing	-
Subtotal			-	2.477		4.895		6.610		-		6.610	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.477		4.895		6.610		-		6.610	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7								R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) D476 / Military Information Support Operations			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>Media Production and Broadcast Systems</i>																												
Hardware development and systems engineering																												
<i>Long Range Broadcast System</i>																												
Material Research and Prototype																												
<i>Product Distribution System</i>																												
Hardware Development and Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Media Production and Broadcast Systems</i>				
Hardware development and systems engineering	2	2014	4	2018
<i>Long Range Broadcast System</i>				
Material Research and Prototype	3	2015	4	2020
<i>Product Distribution System</i>				
Hardware Development and Evaluation	3	2015	2	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S375 / <i>Weapons Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S375: <i>Weapons Systems</i>	-	0.565	-	1.494	-	1.494	1.492	1.492	1.486	1.487	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for development and testing of specialized, individual, assault, crew-served weapons, and fire control/surveillance devices to meet the unique requirements of Special Operations Forces (SOF). SOF often deploys as small, independent, quick reaction, foot-mobile teams independent of primary logistics support. Existing weapons and combat equipment are frequently unsuited to these conditions. This project enhances all SOF weapons, both individual and crew served, by leveraging the latest technological advances in optional accessories (up to 30 different functions/capabilities) such as day scopes, clip-on night scopes, active aiming laser module, visible lights, grenade launchers, suppressors, hand grips, and close quarters battle sights. Miniature Day-Night Sight for Crew-served Weapons enhances all SOF weapons, by leveraging existing image intensification and thermal technology to improve combat effectiveness for all crew served weapon systems. Development efforts include test and evaluation of the Advanced Target Pointer Illuminator Aiming Laser hardening to withstand the live-fire shock profiles for the Combat Assault Rifle along with other improvements, Visual Augmentation Systems, and Family of Muzzle Breaks and Suppressors. Leveraging extensive modeling and simulation efforts executed by National Labs, competitively award RDT&E contracts to select vendors to develop suppressors and flashhiders for select SOF weapon systems. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator.

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

	FY 2014	FY 2015	FY 2016
Title: Weapons Accessary (WPNAC)	0.565	-	1.494
FY 2014 Accomplishments: Continued small arms signature reduction development and testing.			
FY 2016 Plans: Develops enhanced capabilities to improve performance of individual and crew serve SOF weapons.			
Accomplishments/Planned Programs Subtotals	0.565	-	1.494

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>Warrior Systems</i> <\$5M	216.732	270.805	186.009	-	186.009	215.839	196.301	202.374	201.373	Continuing	Continuing
Remarks											

D. Acquisition Strategy

Weapons accessory development will take place within government laboratories as well as industry depending on the weapons system.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>
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E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S375 / <i>Weapons Systems</i>					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Small Arms Signature Reduction	MIPR	Various : Various	-	0.565	May 2014	-		1.494	Jan 2016	-		1.494	Continuing	Continuing	-
Subtotal			-	0.565		-		1.494		-		1.494	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.565		-		1.494		-		1.494	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command																Date: February 2015			
Appropriation/Budget Activity 0400 / 7								R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>								Project (Number/Name) S375 / <i>Weapons Systems</i>			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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>Weapons Systems</i>																												
Small Arms Signature Reduction Development																												
Small Arms Signature Reduction Qualification																												
Small Arms Weapon Improvement Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command	Date: February 2015
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Weapons Systems</i>				
Small Arms Signature Reduction Development	3	2014	3	2015
Small Arms Signature Reduction Qualification	1	2016	4	2020
Small Arms Weapon Improvement Development	2	2016	4	2020