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Exhibit R-2, RDT&E Budget Item 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 1160431BB: <i>WARRIOR SYSTEMS</i>
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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	-	0.000	0.000	17.970	-	17.970	20.573	21.762	14.363	14.363	Continuing	Continuing
S710: <i>Tactical Systems Development</i>	-	0.000	0.000	0.540	-	0.540	1.023	0.975	0.875	0.893	Continuing	Continuing
S700: <i>Communications Equipment and Electronics Systems</i>	-	0.000	0.000	5.836	-	5.836	7.355	7.342	6.320	6.450	Continuing	Continuing
S725: <i>Tactical Radio Systems</i>	-	0.000	0.000	1.699	-	1.699	3.670	5.637	1.697	1.692	Continuing	Continuing
S375: <i>Weapons Systems</i>	-	0.000	0.000	0.000	-	0.000	0.000	0.005	0.005	0.005	Continuing	Continuing
S385: <i>Soldier Protection and Survival Systems</i>	-	0.000	0.000	2.336	-	2.336	2.554	2.929	1.913	1.740	Continuing	Continuing
S385A: <i>Theater Body Armor and Associated Equipment</i>	-	0.000	0.000	1.554	-	1.554	1.973	1.548	0.499	0.495	Continuing	Continuing
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	-	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S800: <i>Munitions Advanced Development</i>	-	0.000	0.000	3.498	-	3.498	0.519	0.013	0.000	0.000	Continuing	Continuing
D476: <i>Military Information Support Operations</i>	-	0.000	0.000	2.507	-	2.507	3.479	3.313	3.054	3.088	Continuing	Continuing

[#] 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 Program Element (PE) represents the approved consolidation of SO Tactical Systems (Automation), PE 1160404BB; SOF Communications Equipment and Electronics System, PE 1160474BB; SOF Tactical Radio Systems, PE 1160476BB; SOF Weapons System, PE 1160477BB; SOF Soldier Protection and Survival Systems and Theater Body Armor and Associated Equipment, PE 1160478BB; SOF Visual Augmentation, Lasers and Sensor Systems, PE 1160479BB; SO Munitions Advanced Development, PE 1160481BB, and SOF Military Information Support Operations (MISO), PE 1160488BB.

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 sensor, munition and military information support operations (MISO) systems. The efforts within this PE

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improves Special Operations Forces (SOF) war fighting 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, 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 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 war fighting 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 war fighting 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 Command, Control, and Communication (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 Command and Control (C2) communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments. Weapons Systems:		

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160431BB: WARRIOR 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. Current efforts include; but are not limited to the life cycle replacement of the MK13 by the Precision Sniper Rifle and an anti-materiel rifle that will pursue heavy sniper system technology to provide SOF with precision engagement capabilities on materiel target. In the weapons accessories program, efforts are currently focusing on muzzle brakes and suppressors and P3I for a variety of accessories, both individual and crew served by leveraging the latest technological advances in optical accessories. Soldier Protection and Survival Systems: 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 the continual changing technology on the battlefield. Theater Body Armor and Associated Equipment: Note: The National Defense Authorization Act of 2010 directed a separate project (S385A) be created for ballistic protection efforts. This project provides specialized equipment to meet the unique soldier protection and survival requirements of SOF with ballistic protection. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. This project funding 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 to meet the current ballistic threats that exists on the battlefield. Visual Augmentation, Lasers and Sensor Systems: This project provides for next generation system development and pre-planned product improvements (P3I), testing, and integration of specialized visual augmentation, laser and sensor systems equipment to meet the unique requirement of SOF. Programs in this area include; but are not limited to binocular/monocular devices, visual augmentation for both crew-served and individual systems; leveraging the latest technological advances. A current capability shortfalls identified by the SOF is the ability to detect, classify, and engage targets out to 800 meters without the use of an infra-red illuminator. Munitions Advanced Development: This project provides for the advanced engineering operational system development and qualification efforts related to SOF-peculiar 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). (Including bullet impact, fast cook off, fragment impact, slow cook off, sympathetic detonation, and shaped charge test.) Testing is in accordance with the USSOCOM IM Strategic Plan. Funding also support 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:		

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160431BB: <i>WARRIOR SYSTEMS</i>
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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 MISO in support of combatant commanders.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	17.970	-	17.970
Total Adjustments	0.000	0.000	17.970	-	17.970
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	17.970	-	17.970

Change Summary Explanation

Funding:

FY2014: Net increase of \$17.970 million is due to the FY 2014 approved consolidation of Program Elements (PE) 1160404BB (\$0.540 million), PE 1160474BB (\$5.836 million), PE 1160476BB, PE 1160478BB (\$3.890 million), PE 1160481BB (\$3.498 million), and PE 1160488BB (\$2.507 million) and a decrease of - \$1.654 million to support higher Departmental priorities.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					PE 1160431BB: WARRIOR SYSTEMS				S710: Tactical Systems Development			
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
S710: Tactical Systems Development	-	0.000	0.000	0.540	-	0.540	1.023	0.975	0.875	0.893	Continuing	Continuing
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 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.

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

	FY 2012	FY 2013	FY 2014
Title: TACLAN Suites	0.000	0.000	0.540
FY 2014 Plans: Continues development, integration, and testing of evolutionary technology insertions such as secure wireless, secure data at rest, thin client capabilities, and cross domain solutions.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.540

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
• PROC1: <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing

Remarks

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S710: <i>Tactical Systems Development</i>
<u>D. Acquisition Strategy</u> 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. <u>E. Performance Metrics</u> N/A.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command												DATE: April 2013		
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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
Secure Wireless Capability	MIPR	iGov:Tampa, FL	-	-		-		0.540	Feb 2014	-		0.540	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.540		0.000		0.540			

	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	0.000	0.000	0.540	0.000	0.540			

Remarks

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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 1160431BB: WARRIOR SYSTEMS				PROJECT S700: Communications Equipment and Electronics 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
S700: Communications Equipment and Electronics Systems	-	0.000	0.000	5.836	-	5.836	7.355	7.342	6.320	6.450	Continuing	Continuing
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 for communication systems to meet emergent requirements to support Special Operations Forces (SOF). SOF Communications Advanced Development 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 satellite communications systems that includes the following variants: heavy, medium, and light. This program consists of a family of deployable, super high frequency, multi-band, satellite communications (SATCOM) systems capable of supporting high-capacity, voice, data, and video services at all levels of classification.												
• The Special Communications Enterprise program (SPCOM) 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). This program transitioned from Program Element 1160402BB, Special Operations Advanced Technology Development.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SDN									0.000	0.000	1.092	
FY 2014 Plans:												

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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 1160431BB: WARRIOR SYSTEMS				PROJECT S700: Communications Equipment and Electronics Systems				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Continues 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, Advanced Extremely High Frequency SATCOM.												
Title: SPCOM										0.000	0.000	4.744
FY 2014 Plans: Begins segment development for the special communications enterprise; develops means and methods (tradecraft) to provide near-term impact to operators.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	5.836
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	
• PROC1: WARRIOR SYSTEMS	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
• SDN is a fielded program with ETIs into all variants: heavy, medium, and light variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.												
• SPCOM 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.												
E. Performance Metrics												
N/A												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>						PROJECT S700: <i>Communications Equipment and Electronics 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
SOF Deployable Node	MIPR	Various:Various	0.000	0.000		-		1.092	Nov 2013	-		1.092	Continuing	Continuing	
Special Communications Capability Development	TBD	Various:Various	-	-		-		4.184	Jan 2014	-		4.184	Continuing	Continuing	
SPCOM Independent Verification and Validation	MIPR	MITRE:Bedford, MA	-	-		-		0.280	Dec 2013	-		0.280	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		5.556		0.000		5.556			

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
SPCOM Independent Verification and Validation	MIPR	MITRE:Bedford, MA	-	-		-		0.280	Mar 2014	-		0.280	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.280		0.000		0.280			

			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	0.000		0.000		5.836		0.000		5.836			

Remarks															

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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 1160431BB: <i>WARRIOR SYSTEMS</i>								PROJECT S700: <i>Communications Equipment and Electronics 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>SOF Deployable Node</i>																												
Evolutionary Technology Insertions																												
<i>Special Communications Enterprise Program</i>																												
Enterprise Segment Services Development																												
Back-End Segment Capabilities Development																												
Field Segment Kits Development																												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT 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>				
Evolutionary Technology Insertions	1	2013	4	2018
<i>Special Communications Enterprise Program</i>				
Enterprise Segment Services Development	1	2014	4	2018
Back-End Segment Capabilities Development	1	2014	4	2018
Field Segment Kits Development	1	2014	4	2018

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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
S725: <i>Tactical Radio Systems</i>	-	0.000	0.000	1.699	-	1.699	3.670	5.637	1.697	1.692	Continuing	Continuing
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 is for development of all SOF tactical radio programs. 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 foreign 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.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: SOF Tactical Communications (STC)										0.000	0.000	1.699
FY 2014 Plans: Continues developing and testing DoD on-orbit capacity in order to enhance C2 capabilities.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	1.699
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	
• PROC1: <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
STC is a commercial off-the-shelf/non-development item program with ETIs. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.												
E. Performance Metrics												
N/A.												

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 1160431BB: <i>WARRIOR SYSTEMS</i>				PROJECT S725: <i>Tactical Radio 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
SOF Tactical Communications (STC)	MIPR	Various:Various	-	-		-		1.699	Jan 2014	-		1.699	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		1.699		0.000		1.699			

			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	0.000		0.000		1.699		0.000		1.699			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command										DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide					PE 1160431BB: WARRIOR SYSTEMS					S725: Tactical Radio Systems			
BA 7: Operational Systems Development													

	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
SOF Tactical Radios																												
SOF Tactical Communications (STC) Radio Development																												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S725: <i>Tactical Radio Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Tactical Radios</i>				
SOF Tactical Communications (STC) Radio Development	2	2014	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S375: <i>Weapons Systems</i>
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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
S375: <i>Weapons Systems</i>	-	0.000	0.000	0.000	-	0.000	0.000	0.005	0.005	0.005	Continuing	Continuing
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 for development and testing of specialized, lightweight 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. Sub-projects include:

Family of Sniper Weapon Systems (FSWS). This program includes next generation system development and pre-planned product improvements (P3I) to current sniper systems. Next-generation systems include two variants: a (PSR) as a life cycle replacement of the current .300 Winchester Magnum rifle (MK13) that is intended to provide SOF with a highly accurate weapon system capable of engaging targets at ranges equal to or better than the MK13, and an anti-materiel rifle that will pursue heavy sniper system technology to provide SOF with precision engagement capabilities on materiel targets.

Weapons Accessories (WPNA). This program effort 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 (MDNS) 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 (ATPIAL) hardening to withstand the live-fire shock profiles for the Combat Assault Rifle (CAR), Visual Augmentation Systems (VAS), and Family of Muzzle Breaks and Suppressors (FMBS). 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)

N/A

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1:: <i>WARRIOR SYSTEMS</i>			210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing

Remarks

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S375: <i>Weapons Systems</i>
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> N/A		

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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 1160431BB: <i>WARRIOR SYSTEMS</i>				PROJECT S375: <i>Weapons 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
Weapons Systems	TBD	TBD:TBD	-	-		-		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000			

	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	0.000		0.000		0.000		0.000		0.000			

Remarks

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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 1160431BB: WARRIOR SYSTEMS				PROJECT S385: 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
S385: Soldier Protection and Survival Systems	-	0.000	0.000	2.336	-	2.336	2.554	2.929	1.913	1.740	Continuing	Continuing
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. - 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. NOTE: The Counter 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										0.000	0.000	0.929
FY 2014 Plans:												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>			PROJECT S385: <i>Soldier Protection and Survival Systems</i>		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Continues profile refinement to support signature management, reactive fiber testing and material research for uniforms. Continues research and development solicitation for an advanced maritime communications system material solution. Continues testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. Continue on-going prototype testing and research on load effects for survivability and soldier load analysis.			
Title: TCCCE	0.000	0.000	0.345
FY 2014 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 program. Develops a solicitation for the contract re-compete for the TCCCE CASEVAC set. Supports 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.			
Title: RC-IED	0.000	0.000	1.062
FY 2014 Plans: Provides 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.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	2.336

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
• PROC1:: <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing
Remarks											
D. Acquisition Strategy N/A											
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						R-1 ITEM NOMENCLATURE				PROJECT					
0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development						PE 1160431BB: WARRIOR SYSTEMS				S385: Soldier Protection and Survival Systems					
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	-	-		-		0.075	Jun 2014	-		0.075	Continuing	Continuing	
SPEAR Protective Combat Uniform (PCU)	Various	PM-SSES:Natick, Ma	-	-		-		0.100	Apr 2014	-		0.100	Continuing	Continuing	
SPEAR- Load Carriage System (LCS) and Backpacks	Various	PM-SSES:Natick, Ma	-	-		-		0.035	Feb 2014	-		0.035	Continuing	Continuing	
SPEAR -Modular Glove System (MGS)	Various	PM-SSES:Natick, Ma	-	-		-		0.040	Apr 2014	-		0.040	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.250		0.000		0.250			
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
SPEAR-PCU testing/P3I	Various	PM/SSES:Natick, Ma	-	-		-		0.050	Jun 2014	-		0.050	Continuing	Continuing	
SPEAR-Signature Management Profile Characteristics	Various	PM-SSES:Natick, Ma	-	-		-		0.065	Jun 2014	-		0.065	Continuing	Continuing	
LCS/BAV/Backpack Material and Prototype Testing	Various	PM-SSES:Natick, Ma	-	-		-		0.020	Apr 2014	-		0.020	Continuing	Continuing	
MGS Testing	Various	PM-SSES:Natick, Ma	-	-		-		0.025	May 2014	-		0.025	Continuing	Continuing	
Soldier Load Analysis	Various	PM-SSES:Natick, Ma	-	-		-		0.115	Feb 2014	-		0.115	Continuing	Continuing	
Maritime Comms Testing	Various	PM-SSES:Natick, Ma	-	-		-		0.404	May 2014	-		0.404	Continuing	Continuing	
TCCCE CASEVAC Sets	Various	PM-SSES:Natick, Ma	-	-		-		0.345	Mar 2014	-		0.345	Continuing	Continuing	
Counter RC-IED Test Support	Various	National Assessment Group:Kirtland AFB, NM	-	-		-		1.062	Jan 2014	-		1.062	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		2.086		0.000		2.086			

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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 1160431BB: WARRIOR SYSTEMS					PROJECT S385: Soldier Protection and Survival Systems			
	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	0.000		0.000		2.336		0.000		2.336			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: 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 1160431BB: WARRIOR SYSTEMS

PROJECT

S385: Soldier Protection and Survival
Systems

	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
SPEAR-Protective Combat Uniform (PCU)																												
PCU P3I																												
SPEAR-Signature Management																												
Signature Management Profile Characterization																												
SPEAR-Modular Glove System																												
Development and Test																												
SPEAR-MICH COMMS																												
Market Research/Interoperability Assessment																												
SPEAR-Maritime Comms																												
Various tests																												
SPEAR-LCS/Vests and Backpacks																												
Material Research and Prototype testing																												
RC-IED																												
NAG Test Support																												
Tactical Combat Casualty Care Kts - CASEVAC																												
Prototype development testing and Airworthiness Certification																												

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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 1160431BB: <i>WARRIOR 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>				
PCU P3I	2	2013	3	2018
<i>SPEAR-Signature Management</i>				
Signature Management Profile Characterization	2	2013	2	2015
<i>SPEAR-Modular Glove System</i>				
Development and Test	2	2013	2	2015
<i>SPEAR-MICH COMMS</i>				
Market Research/Interoperability Assessment	2	2013	2	2015
<i>SPEAR-Maritime Comms</i>				
Various tests	2	2013	3	2015
<i>SPEAR-LCS/Vests and Backpacks</i>				
Material Research and Prototype testing	3	2013	3	2015
<i>RC-IED</i>				
NAG Test Support	1	2014	1	2015
<i>Tactical Combat Casualty Care Kts -CASEVAC</i>				
Prototype development testing and Airworthiness Certification	1	2013	2	2015

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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 1160431BB: WARRIOR 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	0.000	1.554	-	1.554	1.973	1.548	0.499	0.495	Continuing	Continuing
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)

Title: SPEAR-Ballistic Protection	FY 2012	FY 2013	FY 2014
	0.000	0.000	1.554
FY 2014 Plans: Continue foreign ammunition testing and threat validation to assess armor effectiveness. Continue the helmet behind armor effects studies to develop a helmet test methodology and corresponding performance metrics. Continue body armor material research and testing along with the soldier load analysis research and perceptual encapsulation. Continue evaluation of transparent armor products which include ballistic and optical testing of photochomic and laser lenses. Continue work on anti-fogging technologies and testing .			
Accomplishments/Planned Programs Subtotals	0.000	0.000	1.554

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing
Remarks											

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> N/A		

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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 1160431BB: <i>WARRIOR SYSTEMS</i>						PROJECT S385A: <i>Theater Body Armor and Associated Equipment</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 Body Armor	Various	PM-SSES:Natick, MA	-	-		-		0.200	Apr 2014	-		0.200	Continuing	Continuing	
SPEAR-Lightweight Helmets	Various	PM-SSES:Natick, Ma	-	-		-		0.500	May 2014	-		0.500	Continuing	Continuing	
SPEAR-Laser Eye Protection	Various	PM-SSES:Natick, Ma	-	-		-		0.030	May 2014	-		0.030	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.730		0.000		0.730			
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
SPEAR-Body Armor Test	Various	PM-SSES:Natick, Ma	-	-		-		0.100	Mar 2014	-		0.100	Continuing	Continuing	
SPEAR Lightweight Helmet Testing	Various	PM-SSES:Natick, Ma	-	-		-		0.689	Mar 2014	-		0.689	Continuing	Continuing	
SPEAR-Transparent Armor Testing	Various	PM-SSES:Natick, Ma	-	-		-		0.035		-		0.035	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.824		0.000		0.824			
			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	0.000		0.000		1.554		0.000		1.554			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: 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 1160431BB: WARRIOR SYSTEMS				PROJECT S385A: Theater Body Armor and Associated Equipment			

	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-Body Armor</i>																												
Body Armor Material Testing																												
<i>SPEAR Eye Protection</i>																												
Anti-Fogging Development																												
<i>SPEAR Ballistic</i>																												
Foreign Ammunition Testing																												
Threat Validation																												
<i>SPEAR-Helmet</i>																												
Market Lightweight Materials																												

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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SPEAR-Body Armor</i>				
Body Armor Material Testing	2	2012	3	2018
<i>SPEAR Eye Protection</i>				
Anti-Fogging Development	2	2013	2	2015
<i>SPEAR Ballistic</i>				
Foreign Ammunition Testing	2	2013	4	2017
Threat Validation	2	2012	3	2018
<i>SPEAR-Helmet</i>				
Market Lightweight Materials	2	2012	2	2013

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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 1160431BB: WARRIOR SYSTEMS				PROJECT S395: Visual Augmentation, Lasers and Sensor 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
S395: Visual Augmentation, Lasers and Sensor Systems	-	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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 for development, testing and integration of specialized visual augmentation, laser and sensor system equipment to meet the unique requirements of Special Operations Forces(SOF). Specialized equipment will permit small, highly trained forces to conduct required operations within 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, terrorist, or highly sophisticated threat mandates that SOF systems remain technologically superior to enemy threats to ensure mission success.

Visual Augmentation Systems (VAS). This program develops, buys prototypes, and supports fielding of operator-borne combat optics for SOF. These devices provide the SOF operator the ability to maneuver, conduct fire control operations, and perform surveillance and reconnaissance. Research and Development efforts will develop, test, and evaluate prototype systems of the next generation Fusion system.

These Visual Augmentation Systems will provide an all-weather, low-light capability for SOF personnel by employing a Block approach. This Block approach produces a family of VAS systems which will utilize a variety of different sensor technologies to satisfy the capabilities defined by individual Block requirement. Some examples of the types of sensor technologies that these systems may utilize include: Image Intensification, Thermal, Short Wave Infrared (SWIR) and/or multi-spectral. To date the Target Engagement Portfolio has utilized several Block system approaches that have been fielded by the VAS program. These VAS programs will be a developmental effort to produce and field the next generation systems for SOF personnel. Some of the capability shortfalls identified by the SOF community are the following: (1) ability to detect, classify, and engage targets out to 800 m without the use of an infra-red illuminator; (2) ability to determine wind speed at ranges out to 500 m or greater and (3) ability to observe bullet trace at ranges of 800 m or greater.

Visual Augmentation Systems Weapons Accessories (VASWA). This program effort 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 combat optics, aiming laser modules, visible lights, and close quarters battle sights. Miniature Day-Night Sight (MDNS) 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 (ATPIAL) hardening to withstand the live-fire shock profiles for the Combat Assault Rifle (CAR), VAS and clandestine pointer. Leveraging extensive modeling and simulation efforts executed by National Labs. Also, competitively award RDT&E contracts to select vendors in order to develop

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>
clandestine operator-borne visual augmentation devices. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator. B. Accomplishments/Planned Programs (\$ in Millions) N/A C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A		

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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 1160431BB: <i>WARRIOR SYSTEMS</i>				PROJECT S395: <i>Visual Augmentation, Lasers and Sensor 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
Visual Augmentation Systems	TBD	TBD:TBD	-	0.000		0.000		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000			

	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	0.000	0.000	0.000	0.000	0.000			

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					PE 1160431BB: WARRIOR SYSTEMS				S800: Munitions Advanced Development			
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
S800: Munitions Advanced Development	-	0.000	0.000	3.498	-	3.498	0.519	0.013	0.000	0.000	Continuing	Continuing
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 funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment.

Non-Standard Materiel (NSM). 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.

Stand-Off Precision Guided Munitions (SOPGM) provides for the development and improvement of SOF-unique SOPGMs.

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

	FY 2012	FY 2013	FY 2014
Title: NSM	0.000	0.000	0.468
FY 2014 Plans: Conducts proof of principle 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	0.000	0.000	3.030
FY 2014 Plans: Begins 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	0.000	0.000	3.498

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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 1160431BB: <i>WARRIOR SYSTEMS</i>			PROJECT S800: <i>Munitions Advanced Development</i>				
C. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
	• PROC1: : <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing
Remarks												
D. Acquisition Strategy												
NSM: 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 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 1160431BB: WARRIOR SYSTEMS						PROJECT S800: Munitions Advanced Development			
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
Non-Standard Munitions (NSM) - Obtain Munitions Test Articles	C/FFP	General Dynamics::Canada	-	-		-		0.125	Jan 2014	-		0.125	Continuing	Continuing	
NSM - Insensitive Munitions (IM) Evaluation	C/FFP	US Air Force Air Armaments Center:Eglin, AFB	-	-		-		0.050	Jan 2014	-		0.050	Continuing	Continuing	
NSM - IM Testing	Allot	ARDEC: :Picatinny Arsenal, NJ	-	-		-		0.293	Jan 2014	-		0.293	Continuing	Continuing	
Stand-Off Precision Guided Munitions	Allot	Various:Various	-	-		-		3.030	Mar 2014	-		3.030	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		3.498		0.000		3.498			
			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	0.000		0.000		3.498		0.000		3.498			
Remarks															

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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 1160431BB: <i>WARRIOR SYSTEMS</i>								PROJECT S800: <i>Munitions Advanced Development</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
Non-Standard Materiel																												
Purchase Test Articles																												
NSM																												
Evaluation of Insensitive Munitions test articles																												
NSM-IM																												
IM Testing																												
SOPGM																												
Evaluate Lethality Upgrades																												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S800: <i>Munitions Advanced Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Non-Standard Materiel				
Purchase Test Articles	2	2012	2	2014
NSM				
Evaluation of Insensitive Munitions test articles	2	2012	3	2017
NSM-IM				
IM Testing	2	2012	4	2017
SOPGM				
Evaluate Lethality Upgrades	2	2014	2	2016

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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 1160431BB: WARRIOR SYSTEMS				PROJECT D476: Military Information Support Operations			
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
D476: Military Information Support Operations	-	0.000	0.000	2.507	-	2.507	3.479	3.313	3.054	3.088	Continuing	Continuing
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 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.												
• The MISO Broadcast System consists of fixed and deployable multi-media production facilities for radio and television programming, distribution systems, and dissemination systems to provide MISO support to theater commanders. This project is comprised of several interfacing systems that can stand alone or interoperate with other MISO systems as determined by mission requirements. This project includes the fixed site media production center; a light and medium media production capability; a product distribution system that provides a reachback link to systems worldwide; a media system; a transit case fly-away broadcast systems that consists of a combination of amplitude modulation (AM), frequency modulation (FM), shortwave (SW), and television (TV) transmitters, and radio/TV production systems; and a long range broadcast system (LRBS) which transmits analog and digital broadcasts. The LRBS will include scatterable media, telephony, and Internet broadcast. MISO media displays will consist of easily transportable, state of the art, electronic media displays designed to disseminate and broadcast electronic messages designed to influence foreign target audiences, and will support the MISO direct broadcast mission requirements. Additionally, lightweight and tactical media development work stations will allow soldiers to produce MISO products in deployed locations.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: MISO Broadcast System									0.000	0.000	2.507	
FY 2014 Plans: Continues primary hardware development, systems engineering, and test and evaluation on long range broadcast technology, broadcast modernization and media displays. 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.												
Accomplishments/Planned Programs Subtotals									0.000	0.000	2.507	

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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 1160431BB: <i>WARRIOR SYSTEMS</i>				PROJECT D476: <i>Military Information Support Operations</i>				
C. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
	• PROC1: <i>WARRIOR SYSTEMS</i>	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing
Remarks												
D. Acquisition Strategy												
MISO Broadcast program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.												
E. Performance Metrics												
N/A.												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>				PROJECT D476: <i>Military Information Support Operations</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	
MISO Broadcast System	C/Various	Various:Various	-	-		-		2.507	Jan 2014	-		2.507	Continuing	Continuing		
Subtotal			0.000	0.000		0.000		2.507		0.000		2.507				

			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	0.000		0.000		2.507		0.000		2.507			

Remarks

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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 1160431BB: <i>WARRIOR SYSTEMS</i>					PROJECT D476: <i>Military Information Support Operations</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>MISO Broadcast System</i>																												
Hardware development and systems engineering																												

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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 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT D476: <i>Military Information Support Operations</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MISO Broadcast System</i>				
Hardware development and systems engineering	1	2014	4	2018