Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014	
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*					R-1 Program Element (Number/Name) PE 1160431BB / *Warrior Systems*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	-	14.973	24.661	-	24.661	25.963	15.243	14.376	12.636	Continuing	Continuing
S710: *Tactical Systems Development*	0.000	-	0.353	1.023	-	1.023	0.975	0.875	0.893	0.910	Continuing	Continuing
S700: *Communications Equipment and Electronics Systems*	0.000	-	3.264	4.230	-	4.230	5.434	4.287	5.203	5.341	Continuing	Continuing
S725: *Tactical Radio Systems*	0.000	-	1.699	3.670	-	3.670	5.637	1.707	1.702	1.726	Continuing	Continuing
S385: *Soldier Protection and Survival Systems*	0.000	-	2.260	2.554	-	2.554	2.929	1.913	1.740	2.255	Continuing	Continuing
S385A: *Body Armor and Associated Equipment*	0.000	-	1.504	1.973	-	1.973	1.548	0.499	0.495	0.504	Continuing	Continuing
S395: *Visual Augmentation, Lasers and Sensor Systems*	0.000	-	-	1.709	-	1.709	2.355	0.755	0.005	-	Continuing	Continuing
S800: *Munitions Advanced Development*	0.000	-	3.386	0.519	-	0.519	0.013	-	-	-	Continuing	Continuing
D476: *Military Information Support Operations*	0.000	-	2.507	8.983	-	8.983	7.072	5.207	4.338	1.900	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

Beginning in FY 2014 this Program Element (PE) represents the approved consolidation of Special Operations Tactical Systems (Automation), PE 1160404BB; Special Operations Forces (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 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 sensors, munition and military information support operations (MISO) systems. The efforts within this PE improves 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, 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. Current efforts include life cycle replacement of MK13 rifles by the Precision Sniper Rifle and an

anti-materiel rifle that will pursue heavy sniper system technology to provide SOF with precision engagement capabilities. 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 continually changing technology on the battlefield.

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 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 next generation system development, testing, and integration of specialized visual augmentation, laser and sensor systems equipment to meet the unique requirement of SOF. Programs in this area include binocular/monocular devices and visual augmentation for both crew-served and individual systems. The project also leverages the latest technological advances to ensure state of the art equipment is developed and produced.

Munitions 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 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	17.970	20.573	-	20.573
Current President's Budget	-	14.973	24.661	-	24.661
Total Adjustments	-	-2.997	4.088	-	4.088
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-0.497			
• Other Adjustments	-	-	4.088	-	4.088

Change Summary Explanation

Funding:

FY2014: Decrease of -$2.997 million is due to a congressional directed reduction for Special Communications Field Segment Enterprise (SPCOM) ($-2.500 million), and a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer Program.

FY2015: Increase of $4.088 million supports the Long Range Broadcast System for pod-based FM and cellular broadcast, power, and antenna technologies.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S710: *Tactical Systems Development*	-	-	0.353	1.023	-	1.023	0.975	0.875	0.893	0.910	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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, Coalition Local Area Network, and Full Motion Video Kits.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: TACLAN Suites	-	0.353	1.023
FY 2014 Plans: Continue development, integration, and testing of evolutionary technology insertions such as secure wireless, secure data at rest, thin client capabilities, and cross domain solutions.			
FY 2015 Plans: Continues development, integration, and testing of evolutionary technology insertions for SOFNET Prototype Design, Win7 Integration, and Secure Data At Rest.			
Accomplishments/Planned Programs Subtotals	-	0.353	1.023

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC: *Other Items <$5M*	-	216.128	192.448	-	192.448	204.505	328.585	212.432	218.791	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S710 / *Tactical Systems Development*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost

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

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S710 / *Tactical Systems Development*

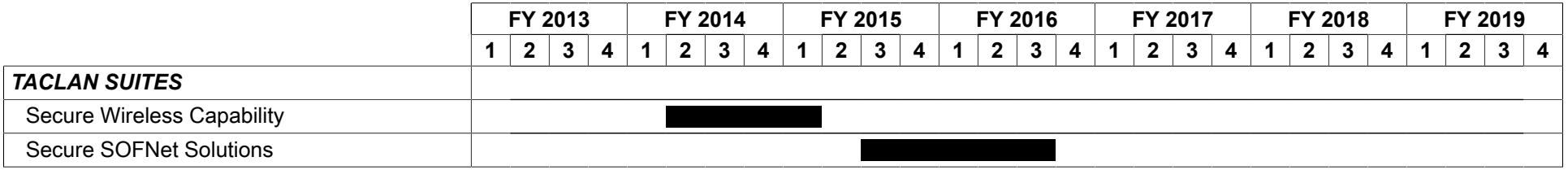

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S710 / *Tactical Systems Development*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
TACLAN SUITES				
Secure Wireless Capability	2	2014	1	2015
Secure SOFNet Solutions	3	2015	3	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S700: *Communications Equipment and Electronics Systems*	-	-	3.264	4.230	-	4.230	5.434	4.287	5.203	5.341	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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). 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 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 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 2013	FY 2014	FY 2015
Title: SDN	-	1.092	2.394
FY 2014 Plans: Continue 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.			
FY 2015 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S700 / *Communications Equipment and Electronics Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Assesses, tests and evaluates advanced antenna design and performance. Conducts market research on multi-level security solutions for SDN application. Conducts testing using Global Express. Integrates SDN into the Advanced Extremely High Frequency band.			
Title: SPCOM ***FY 2014 Plans:*** Begin segment development for the SPCOM enterprise; develop means and methods (tradecraft) to provide near-term impact to operators. ***FY 2015 Plans:*** Continues segment development for the SPCOM enterprise; develops means and methods (tradecraft) to provide near-term impact to operators.	-	2.172	1.836
Accomplishments/Planned Programs Subtotals	-	3.264	4.230

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC/0204Warrior: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	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.

• 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

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S700 / *Communications Equipment and Electronics Systems*

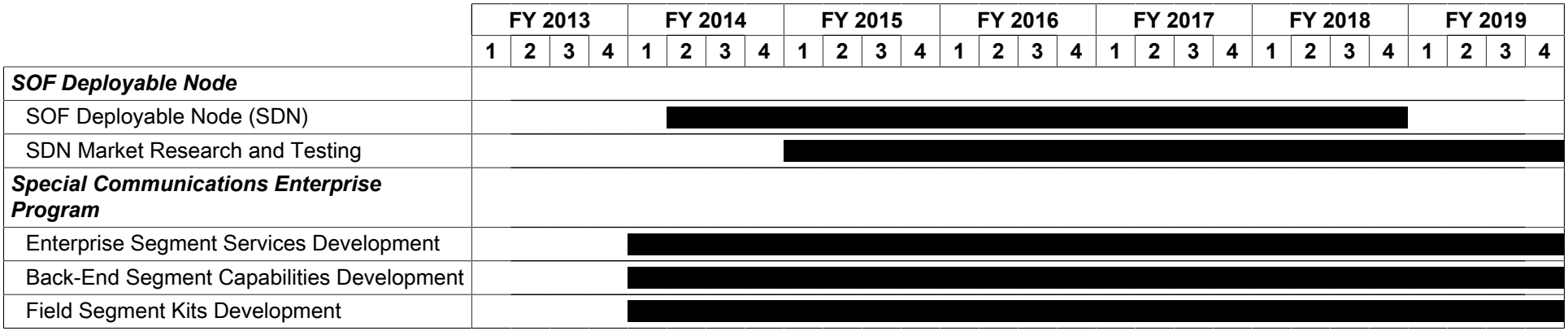

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S700 / *Communications Equipment and Electronics Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SOF Deployable Node				
SOF Deployable Node (SDN)	2	2014	4	2018
SDN Market Research and Testing	1	2015	4	2019
Special Communications Enterprise Program				
Enterprise Segment Services Development	1	2014	4	2019
Back-End Segment Capabilities Development	1	2014	4	2019
Field Segment Kits Development	1	2014	4	2019

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S725: *Tactical Radio Systems*	-	-	1.699	3.670	-	3.670	5.637	1.707	1.702	1.726	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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 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 2013	FY 2014	FY 2015
Title: SOF Tactical Communications (STC) ***FY 2014 Plans:*** Continue developing and testing DoD on-orbit capacity in order to enhance C2 capabilities. ***FY 2015 Plans:*** Develops and tests new capability in Tactical Radio equipment.	-	1.699	1.672
Title: Blue Force Tracking (BFT) ***FY 2015 Plans:*** This program is a FY 2015 new start. Develops and tests new capability in Blue Force Tracking equipment.	-	-	1.998
Accomplishments/Planned Programs Subtotals	-	1.699	3.670

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC 1: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing

Remarks

D. Acquisition Strategy

STC is a Commercial-Off-The-Shelf/non-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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S725 / *Tactical Radio Systems*

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.

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S725 / *Tactical Radio Systems*

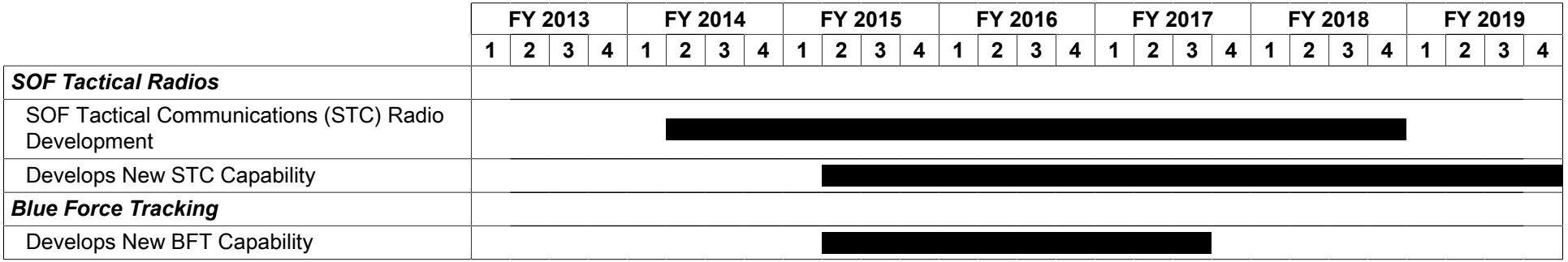

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S725 / *Tactical Radio Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SOF Tactical Radios				
SOF Tactical Communications (STC) Radio Development	2	2014	4	2018
Develops New STC Capability	2	2015	4	2019
Blue Force Tracking				
Develops New BFT Capability	2	2015	3	2017

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S385: *Soldier Protection and Survival Systems*	-	-	2.260	2.554	-	2.554	2.929	1.913	1.740	2.255	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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 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) 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 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 program element 1160408BB. The resources for these efforts were split beginning in FY 2013 to support SOF theater force requirements.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: SPEAR	-	0.899	0.917
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
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 2013	FY 2014	FY 2015
Continue profile refinement to support signature management, reactive fiber testing and material research for uniforms. Continue research and development solicitation for an advanced maritime communications system material solution. Continue 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. ***FY 2015 Plans:*** Continues profile refinement to support signature management and material research for uniforms. Initiates research and development and a solicitation for a land communications material solution. Continues testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. Continues on-going prototype testing. Address emerging SOF-unique requirements as SOF transitions from heavy deployments in Iraq and Afghanistan to a global focus.			
Title: TCCC ***FY 2014 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 program. Develops a solicitation for the contract re-compete for the TCCC CASEVAC set. 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 2015 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. Continue evaluation, airworthiness certification and miniaturization of TCCC CASEVAC components. 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.	-	0.333	0.560
Title: RC-IED ***FY 2014 Plans:*** 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. Maintains range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems. ***FY 2015 Plans:***	-	1.028	1.077

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
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 2013	FY 2014	FY 2015
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	-	2.260	2.554

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC1: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S385 / *Soldier Protection and Survival Systems*

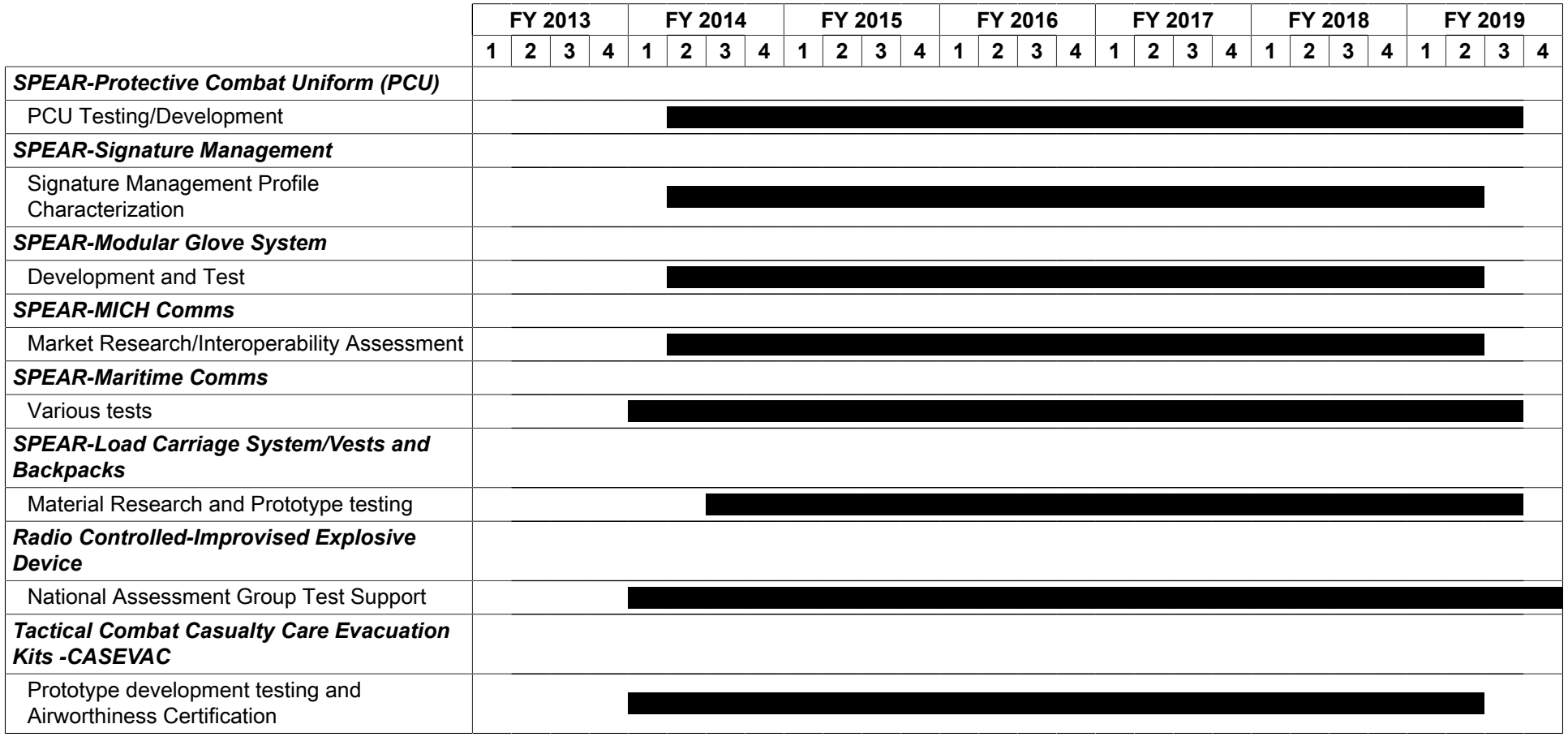

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S385 / *Soldier Protection and Survival Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SPEAR-Protective Combat Uniform (PCU)				
PCU Testing/Development	2	2014	3	2019
SPEAR-Signature Management				
Signature Management Profile Characterization	2	2014	2	2019
SPEAR-Modular Glove System				
Development and Test	2	2014	2	2019
SPEAR-MICH Comms				
Market Research/Interoperability Assessment	2	2014	2	2019
SPEAR-Maritime Comms				
Various tests	1	2014	3	2019
SPEAR-Load Carriage System/Vests and Backpacks				
Material Research and Prototype testing	3	2014	3	2019
Radio Controlled-Improvised Explosive Device				
National Assessment Group Test Support	1	2014	4	2019
Tactical Combat Casualty Care Evacuation Kits -CASEVAC				
Prototype development testing and Airworthiness Certification	1	2014	2	2019

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S385A: *Body Armor and Associated Equipment*	-	-	1.504	1.973	-	1.973	1.548	0.499	0.495	0.504	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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 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. Creation of a separate project for ballistic protection efforts was directed in the National Defense Authorization Act of 2010.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: SPEAR-Ballistic Protection	-	1.504	1.973
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 lightweight body armor material research and testing to include clandestine. 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. Research and testing of soldier worn sensors and non-destructive inspection technologies.			
FY 2015 Plans: Continues foreign ammunition testing and threat validation to assess armor effectiveness. Continues the helmet behind armor effects studies to develop a helmet test methodology and corresponding performance metrics. Research and testing of soldier worn sensors. Continues lightweight body armor material research and improved performance ballistic plates. Continues evaluation of transparent armor products which include ballistic and optical testing of photochromic, electrochromic and laser lenses. Continues 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.			
Accomplishments/Planned Programs Subtotals	-	1.504	1.973

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S385A / *Body Armor and Associated Equipment*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC1: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S385A / *Body Armor and Associated Equipment*

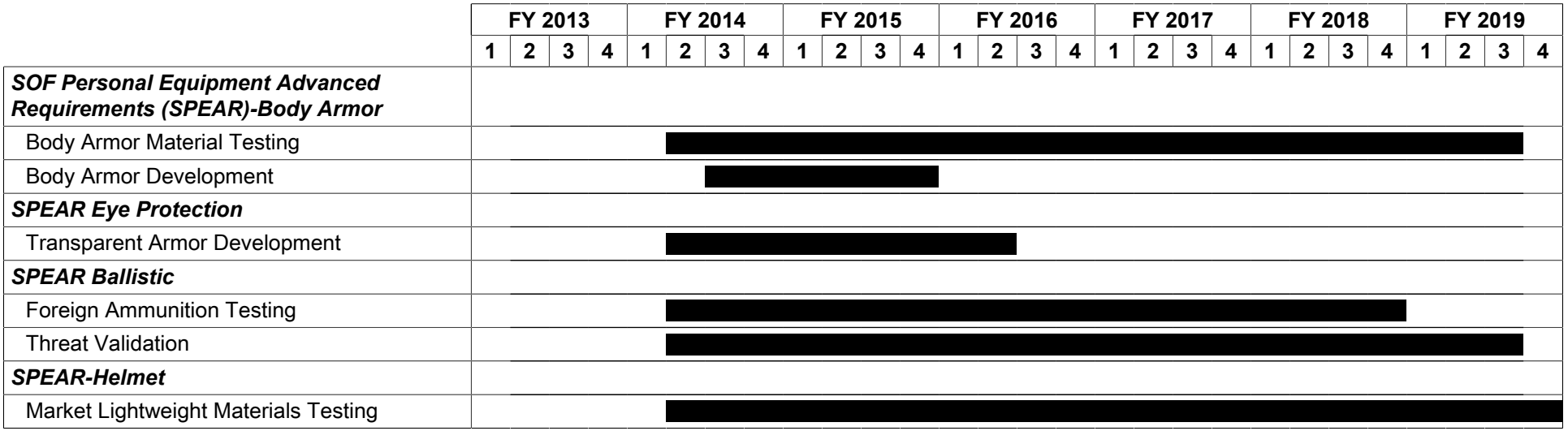

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S385A / *Body Armor and Associated Equipment*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SOF Personal Equipment Advanced Requirements (SPEAR)-Body Armor				
Body Armor Material Testing	2	2014	3	2019
Body Armor Development	3	2014	4	2015
SPEAR Eye Protection				
Transparent Armor Development	2	2014	2	2016
SPEAR Ballistic				
Foreign Ammunition Testing	2	2014	4	2018
Threat Validation	2	2014	3	2019
SPEAR-Helmet				
Market Lightweight Materials Testing	2	2014	4	2019

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S395: *Visual Augmentation, Lasers and Sensor Systems*	-	-	-	1.709	-	1.709	2.355	0.755	0.005	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for development, testing, integration and training 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 across the globe in support of operations. 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 and lasers for SOF. These devices provide the SOF operator the ability to maneuver, conduct effects collaboration, control operations and perform surveillance and reconnaissance. Research and Development efforts will develop, test, train and evaluate prototype systems of the next generation Fusion system.

These Visual Augmentation and Situational Awareness (SA) systems will provide an all-weather, low-light capability for SOF personnel by employing a block approach (Evolutionary Acquisition). This Block approach produces a family of VAS systems which will utilize a variety of sensor technologies to satisfy the capabilities defined by the 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 to maintain the edge and reduce weight while improving the operator's abilty to make military decisions with improved SA. SOF Improvements include the following: (1) Ability to detect, classify and engage targets without the use of an infrared illuminator; (2) ability to determine wind speed; (3) ability to observe bullet trace; (4) size and weight of the equipment hampers mobility and agility (weight reduction). Sensor or Data Fusion combines or integrates the outputs from multiple sensors operating in different spectra into a single image while presenting the data in a useful manner to the operator and protecting the goggle from laser damage. Digital Signal Enhancement stores and processes an image to sharpen, expand, or filter out unwanted information, thereby improving resolution and enhancing an image's utility to operators.

SOF laser capability. SOF is required to provide collaboration guidance and control for platforms, weapons and capabilities provided by a variety of systems and providers. The capability will provide interoperability with US and Coalition forces. SOF dismounted and mounted forces need the ability to mark, designate, and point objects of interest to collaborate the intent of the ground force commander to the capability providers in a timely and safe manner. This capability will provide SOF forces the most efficient and lightweight capability to conduct operations.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
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*

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 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, 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 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)	FY 2013	FY 2014	FY 2015
Title: Visual Augmentation Systems	-	-	1.709
FY 2015 Plans: Continues the development of the next generation of operator-born visual augmentation devices to improve situational awareness, sharing of data/images and target acquisition.			
Accomplishments/Planned Programs Subtotals	-	-	1.709

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC/1: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing

Remarks

D. Acquisition Strategy

VAS utilizes RDT&E funds to develop prototypes for the next generation SOF operator-borne visual augmentation devices. These developmental efforts will leverage Science and Technology projects conducted to date and lead to the development of prototype systems for SOF to evaluate and an Indefinite Delivery Indefinite Quantity production contract to support SOF procurement of the production version of the next generation operator-borne visual augmentation device.

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S800: *Munitions Advanced Development*	-	-	3.386	0.519	-	0.519	0.013	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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 2013	FY 2014	FY 2015
Title: NSM ***FY 2014 Plans:*** Conduct proof of principle 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 2015 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).	-	0.453	0.519
Title: SOPGM ***FY 2014 Plans:*** Begin 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.	-	2.933	-
Accomplishments/Planned Programs Subtotals	-	3.386	0.519

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S800 / *Munitions Advanced Development*	

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC1: *Warrior Systems<$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	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

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S800 / *Munitions Advanced Development*

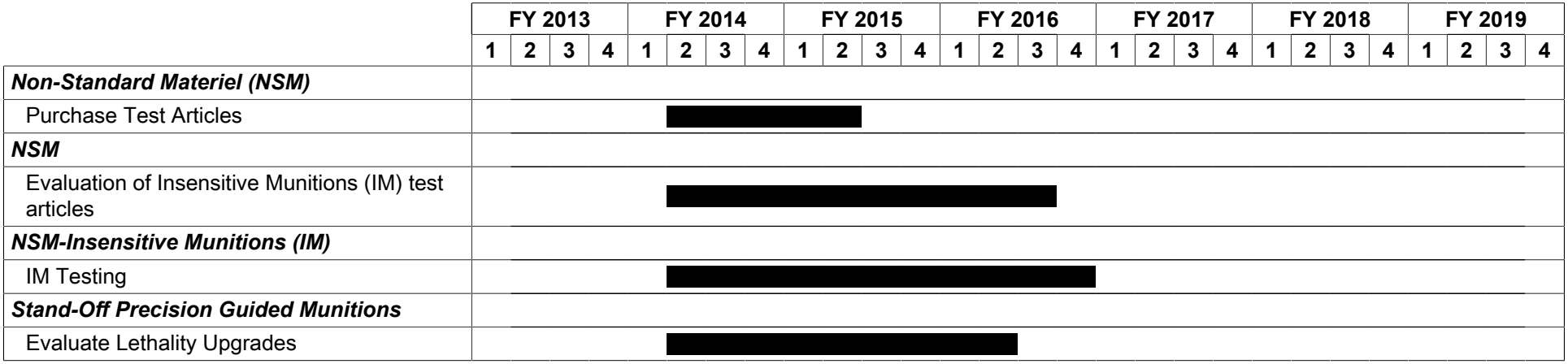

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** S800 / *Munitions Advanced Development*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Non-Standard Materiel (NSM)				
Purchase Test Articles	2	2014	2	2015
NSM				
Evaluation of Insensitive Munitions (IM) test articles	2	2014	3	2016
NSM-Insensitive Munitions (IM)				
IM Testing	2	2014	4	2016
Stand-Off Precision Guided Munitions				
Evaluate Lethality Upgrades	2	2014	2	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command			Date: March 2014
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 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
D476: *Military Information Support Operations*	-	-	2.507	8.983	-	8.983	7.072	5.207	4.338	1.900	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 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.

• 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 FY15 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 the fixed site MPC; a light and medium media production capability; a PDS that provides a reach back link to systems worldwide; the FABS is 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 the LRBS, an unmanned, long-loiter broadcast system with the ability to provide AM, FM, SW, TV UHF/VHF, and cellular MISO products to foreign target audiences in permissive, semi-permissive, and denied environments.

• Product Distribution System (PDS) provides the satellite communications (SATCOM) transport path for the worldwide Military Information Support Operations (MISO) architecture. PDS consists of four 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.

• Long Range Broadcast System (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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: MISO Broadcast System	-	2.507	2.280
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** D476 / *Military Information Support Operations*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
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 2015 Plans:*** Continues primary hardware development, systems engineering, and test and evaluation on product distribution technology. 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 (Previously funded under MISOB) ***FY 2015 Plans:*** Begins primary hardware development, systems engineering, and test and evaluation on pod-based FM and cellular broadcast, power, and antenna technologies.	-	-	5.504
Title: PDS (Previously funded under MISOB) ***FY 2015 Plans:*** Continues hardware development, systems engineering, and test and evaluation on new PDS / SDN-P components and technologies integrating audio/visual capabilities for enhanced distribution and delivery of MISO products.	-	-	1.199
Accomplishments/Planned Programs Subtotals	-	2.507	8.983

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• PROC1: *OTHER ITEMS <$5M*	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing

Remarks

D. Acquisition Strategy

The MISO 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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** D476 / *Military Information Support Operations*

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.

E. Performance Metrics

N/A.

Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** D476 / *Military Information Support Operations*

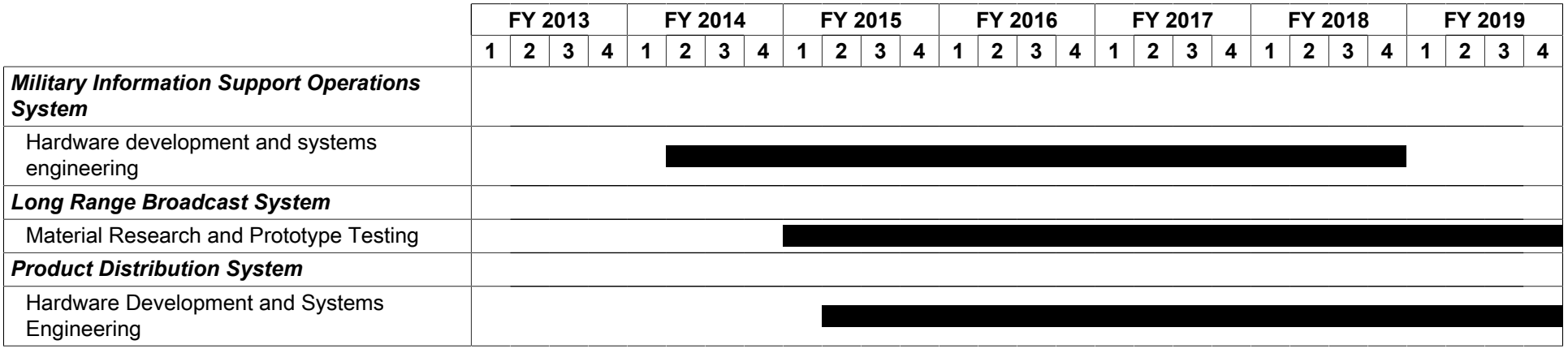

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160431BB / *Warrior Systems*	**Project (Number/Name)** D476 / *Military Information Support Operations*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Military Information Support Operations System				
Hardware development and systems engineering	2	2014	4	2018
Long Range Broadcast System				
Material Research and Prototype Testing	1	2015	4	2019
Product Distribution System				
Hardware Development and Systems Engineering	2	2015	4	2019