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

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 1160477BB: SOF Weapons Systems

DATE: April 2013

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	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	8.132	3.002	1.511	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.645
S375: SOF Weapons Systems	8.132	3.002	1.511	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.645

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

#### Note

Beginning in FY 2014, this Program Element (PE) 1160477BB, SOF Weapons Systems has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

## A. Mission Description and Budget Item Justification

This program element provides for development, testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of Special Operations Forces (SOF). This specialized 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.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	2.610	1.511	0.000	-	0.000
Current President's Budget	3.002	1.511	0.000	-	0.000
Total Adjustments	0.392	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	0.459	-			
SBIR/STTR Transfer	-0.067	-			

## **Change Summary Explanation**

Funding:

FY 2012: Net Increase of \$0.392 million is due to reprogramming for higher command priorities (-\$0.210 million); reprogramming to the Family of Sniper Weapons Systems (FSWS) Program for development and user assessment of the Precision Sniper Rifle (PSR) (\$0.457 million); reprogramming to Weapons

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

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Special Operations Command	DATE: April 2013
R-1 ITEM NOMENCLATURE PE 1160477BB: SOF Weapons Systems	
tics - Optimizer (\$0.212 million); and a transfer o	of funds to Small Business Innovative Researc
	R-1 ITEM NOMENCLATURE

PE 1160477BB: SOF Weapons Systems
United States Special Operations Command

Exhibit R-2A, RDT&E Project J	T (\$ in Millions)  Weapons Systems  ACTIVITY  All Prior Years  FY 2012  FY 2013  8.132  8.132	Jnited State	s Special C	Operations C	Command				<b>DATE:</b> Apr	il 2013		
	rch, Development, Test & Evaluation, Defense-Wide tional Systems Development  (\$ in Millions)  All Prior Years FY 2012 FY 2013*  Weapons Systems  8.132 3.002 1.511			NOMENCL 77BB: SOF		ystems			Systems			
COST (\$ in Millions)		FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	PROJECT S375: SOF Weapons System  Cos Cos Com Cos Com Com Cos Com	Cost To Complete	Total Cost		
S375: SOF Weapons Systems	8.132	3.002	1.511	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.645
Quantity of RDT&E Articles	PRIATION/BUDGET ACTIVITY Research, Development, Test & Evaluation, Defense-Wide Perational Systems Development  OST (\$ in Millions)  All Prior Years FY 2012 FY 2013  FY 2013  FY 2013											

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## 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 (WPNAC). 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)	FY 2012	FY 2013	FY 2014
Title: FSWS	0.457	0.000	0.000
FY 2012 Accomplishments: Purchased PSR test articles, labor support and ammunition to conduct developmental and safety testing and user assessments.			
Title: WPNAC	2.545	1.511	0.000
FY 2012 Accomplishments:			

PE 1160477BB: SOF Weapons Systems
United States Special Operations Command

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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

DATE: April 2013

FY 2013

FY 2014

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 1160477BB: SOF Weapons Systems

S375: SOF Weapons Systems

FY 2012

BA 7: Operational Systems Development

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

Conducted market research, purchase labor support for down select, test articles, operational and developmental testing and field user assessment that supports the VAS and FMBS programs.

#### FY 2013 Plans:

Continue development of VAS and FMBS programs. Conduct market research, continue down select support, test articles, operational and developmental testing, and user assessment that supports the VAS and FMBS programs.

Accomplishments/Planned Programs Subtotals 3.002 1.511 0.000

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	<b>Total Cost</b>
• PROC: SMALL ARMS AND	24.747	27.108	0.000		0.000	0.000	0.000	0.000	0.000	0.000	51.855

**WEAPONS** 

### Remarks

## D. Acquisition Strategy

- FSWS. Develops, tests, and evaluates highly accurate, long-range weapon systems to enable the SOF operator to engage the enemy and material targets utilizing pre-planned product improvement and incremental development based on technological advances.
- WPNAC. Develops, tests, and evaluates accessories to optimize the effectiveness of all SOF weapons in order to increase their operational effectiveness through improved target recognition, acquisition and hit capability during day and night from close quarters to maximum effective range of each weapon. Develops VAS for SOF weapons systems. Devices will provide the SOF operator with the ability to engage enemy combatants in all lighting conditions utilizing SOF weapons systems. Develops next generation suppressors for SOF rifle/carbine and light machine gun weapons systems to enhance SOF operational security during engagement with enemy combatants.

### **E. Performance Metrics**

F. Major Performers

Activity/Location Description Project

Naval System Warfare Center-Crane/Crane, Indiana System Engineering, developmental and operational testing Various

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

R-1 ITEM NOMENCLATURE

**PROJECT** 

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 1160477BB: SOF Weapons Systems

S375: SOF Weapons Systems

DATE: April 2013

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

Product Developmer	nt (\$ in Mi	llions)		FY 2	2012	FY 2	013	FY 2 Ba		FY 2		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	Total Cost	Target Value of Contract
Family of Muzzle Brakes and Suppressors (FMBS)	C/FFP	NSWC-Crane:Crane, IN	0.703	1.050	Jul 2012	0.818	Mar 2013	-		-		-	Continuing	Continuing	Continuing
PSR	C/FFP	NSWC-Crane:Crane, IN	0.141	0.118	Nov 2012	-		0.000		-		0.000	Continuing	Continuing	Continuing
Prior Years - Completed Efforts	C/FFP	NSWC-Crane:Crane, IN	0.562	-		-		-		-		-	Continuing	Continuing	Continuing
Weapons Accessories Visual Augmentation Systems (WPNAC VAS)	C/FFP	NSWC-Crane:Crane, IN	1.860	-		-		-		-		-	Continuing	Continuing	Continuing
	,	Subtotal	3.266	1.168		0.818		0.000		0.000		0.000			

Support (\$ in Million	s)			FY 2	2012	FY 2	2013	FY 2 Ba		FY 2	2014 CO	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	Total Cost	Target Value of Contract
FMBS	C/FFP	NSWC-Crane:Crane, IN	0.108	0.208	Dec 2011	0.493	Dec 2012	-		-		-	Continuing	Continuing	Continuing
PSR	C/FFP	NSWC-Crane:Crane, IN	-	0.247	May 2012	-		-		-		-	Continuing	Continuing	Continuing
Prior Years - Completed Efforts	C/FFP	NSWC-Crane:Crane, IN	0.065	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	0.173	0.455		0.493		0.000		0.000		0.000			

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013		2014 ase		2014 CO	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	Total Cost	Target Value of Contract
FMBS	C/FFP	NSWC-Crane:Crane, IN	0.100	-		0.200	Dec 2012	-		-		-	Continuing	Continuing	Continuing
Weapons Accesories Visual Augmentation Systems	C/FFP	NSWC-Crane:Crane, IN	2.939	1.287	Jun 2012	-		-		-		-	Continuing	Continuing	Continuing

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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

R-1 ITEM NOMENCLATURE

**PROJECT** 

0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development

PE 1160477BB: SOF Weapons Systems

S375: SOF Weapons Systems

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	:013	FY 2 Ba		FY 2		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	Total Cost	Target Value of Contract
PSR	C/FFP	NSWC-Crane:Crane, IN	0.471	0.092	Mar 2012	-		-		-		-	Continuing	Continuing	Continuing
Prior Years - Completed Efforts	C/FFP	NSWC-Crane:Crane, IN	1.183	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	4.693	1.379		0.200		0.000		0.000		0.000			

	All Prior Years	FY 2	012	FY 2	2013	FY 2 Ba	-	FY 2	-	Y 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.132	3.002		1.511		0.000		0.000		0.000			

Remarks

PE 1160477BB: *SOF Weapons Systems*United States Special Operations Command

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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 1160477BB: SOF Weapons Systems

**PROJECT** 

S375: SOF Weapons Systems

		FY 2	012			FY 2	2013	3		FY 2	014			FY 2	2015			FY 2	2016	3		FY	2017	,		FY 2	018	}
	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
Weapons Accessories -Visual Augmentation Systems Development			'									,			,		,											
Develop/release solicitation																												_
Source Selection																												
Contract Award																												
Receive Prototype Systems																												
Developmental Testing/User Assessment of Prototypes																												
Prototype Down-Select Decision																												
Delivery of Low Rate Initial Production LRIP Systems																												
Family of Muzzle Break Suppressors Development																												
Lightweight Machine Gun (LMG) Suppressor Solicitation																												
LMG Research and Development Contract Award																												
LMG Modeling																												
LMG Conduct Initial Prototyping																												
LMG MS B Decision																												
LMG Conduct Follow-on Prototyping																												
LMG - MS C LRIP Decision																												
Award LMG Suppressor Contract																												
Precision Sniper Rifle Development																												
Contract Award																												
Receive Test Units																												

xhibit R-4, RDT&E Schedule Profile: PB	2014 Unite	ed St	ates Sp	ecial	Оре	ratio	ons C	Con	nmand										[	ATE	: A	pril 2	201	3		
PROPRIATION/BUDGET ACTIVITY  10: Research, Development, Test & Evaluation, Defense-Wide  7: Operational Systems Development							R-1 ITEM NOMENCLATURE PE 1160477BB: SOF Weapons Systems  PROJE S375: S								Weapons Systems											
		FY 2012 FY 201			2013	I3 FY 2014			FY 2015 F			<b>Y</b>	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
Phase I Technical Testing		·										•														
User Assessment of Test Units																										
Phase II Technical Testing																										
Safety Certification Release																										
Production Contract Award																										

Exhibit R-4A, RDT&E Schedule Details: 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 1160477BB: SOF Weapons Systems

S375: SOF Weapons Systems

# Schedule Details

	Sta	End			
Events by Sub Project	Quarter	Year	Quarter	Year	
Weapons Accessories -Visual Augmentation Systems Development					
Develop/release solicitation	1	2012	1	2012	
Source Selection	2	2012	2	2012	
Contract Award	3	2012	3	2012	
Receive Prototype Systems	4	2012	4	2012	
Developmental Testing/User Assessment of Prototypes	2	2013	4	2013	
Prototype Down-Select Decision	2	2013	2	2013	
Delivery of Low Rate Initial Production LRIP Systems	4	2013	4	2013	
Family of Muzzle Break Suppressors Development					
Lightweight Machine Gun (LMG) Suppressor Solicitation	1	2012	2	2012	
LMG Research and Development Contract Award	4	2012	4	2012	
LMG Modeling	1	2013	1	2013	
LMG Conduct Initial Prototyping	2	2013	2	2013	
LMG MS B Decision	4	2013	4	2013	
LMG Conduct Follow-on Prototyping	4	2013	2	2014	
LMG - MS C LRIP Decision	3	2014	3	2014	
Award LMG Suppressor Contract	4	2014	4	2014	
Precision Sniper Rifle Development					
Contract Award	3	2012	3	2012	
Receive Test Units	1	2013	1	2013	
Phase I Technical Testing	1	2013	2	2013	
User Assessment of Test Units	2	2013	2	2013	

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Operations Command

DATE: April 2013

2013

APPROPRIATION/BUDGET ACTIVITY

**Production Contract Award** 

R-1 ITEM NOMENCLATURE

**PROJECT** 

2013

0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development

PE 1160477BB: SOF Weapons Systems

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S375: SOF Weapons Systems

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	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
Phase II Technical Testing	2	2013	2	2013		
Safety Certification Release	3	2013	3	2013		