Department of Defense Fiscal Year (FY) 2014 President's Budget Submission

April 2013



United States Special Operations Command

Justification Book

Research, Development, Test & Evaluation, Defense-Wide

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Table of Contents

Comptroller Exhibit R-1	iii
Program Element Table of Contents (by Budget Activity then Line Item Number)	xiii
Program Element Table of Contents (Alphabetically by Program Element Title)	.xvii
USSOCOM Organizations	. xix
Acronyms	xxi
Exhibit R-2's	1

i

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

ii

Department of Defense FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2013

				Emergency		
		FY 2013	FY 2013	Disaster	FY 2013	
	FY 2012	Base Request	OCO Request	Relief Act of	Total Request	FY 2014
Appropriation	(Base & OCO)	with CR Adj*	with CR Adj*	2013	with CR Adj*	Base
Research, Development, Test & Eval, DW	483,377	427,465	5,000		432,465	372,693
			-,		1517 105	572,005
Total Research, Development, Test & Evaluation	483,377	427,465	5,000		432,465	372,693
			-,			5.2,055

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

iii

Department of Defense FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2013

Summary Recap of Budget Activities	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	The second	FY 2014 Base
Applied Research	40,517	28,739		28,739	29,246
Advanced Technology Development	37,301	51,137		51,137	46,809
Operational System Development	405,559	347,589	5,000	352,589	296,638
Total Research, Development, Test & Evaluation	483,377	427,465	5,000	432,465	372,693
Summary Recap of FYDP Programs					
Intelligence and Communications	9,217	25,527	5,000	30,527	23,188
Special Operations Forces	470,501	401,938		401,938	349,505
Classified Programs	3,659				
Total Research, Development, Test & Evaluation	483,377	427,465	5,000	432,465	372,693

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

iv

Defense-Wide FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2013

		FY 2013	FY 2013	Emergency Disaster FY 2013	
Summary Recap of Budget Activities	FY 2012 (Base & OCO)	Base Request with CR Adj*	OCO Request with CR Adj*		FY 2014 Base
	(Babb a 666),				
Applied Research	40,517	28,739		28,739	29,246
Advanced Technology Development	37,301	51,137		51,137	46,809
Operational System Development	405,559	347,589	5,000	352,589	296,638
Total Research, Development, Test & Evaluation	483,377	427,465	5,000	432,465	372,693
Summary Recap of FYDP Programs					
Intelligence and Communications	9,217	25,527	5,000	30,527	23,188
Special Operations Forces	470,501	401,938		401,938	349,505
Classified Programs	3,659				
Total Research, Development, Test & Evaluation	483,377	427,465	5,000	432,465	372,693

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

v

Defense-Wide FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2013

				Emergency		
		FY 2013	FY 2013	Disaster	FY 2013	
	FY 2012	Base Request	OCO Request	Relief Act of	Total Request	FY 2014
Appropriation	(Base & OCO)	with CR Adj*	with CR Adj*	2013	with CR Adj*	Base
U.S., Special Operations Command			5,000			372,693
Total Research, Development, Test & Evaluation			5,000			372,693

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

Page D-2

vi

Defense-Wide FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Program Line Element No Number	Item	Act	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*	FY 2014 Base	S e c
27 1160401	B Special Operations Technology Development	02	40,517	28,739			28,739	29,246	U
Apj	lied Research		40,517	28,739			28,739	29,246	
72 11604021	B Special Operations Advanced Technology Development	t 03	31,689	45,317			45,317	46,809	U
73 11604221	B Aviation Engineering Analysis	03	815	861			861		U
74 11604721	B SOF Information and Broadcast Systems Advanced Technology	03	4,797	4,959			4,959		U
Adv	anced Technology Development		37,301	51,137			51,137	46,809	
216 0304210	B Special Applications for Contingencies	07	4,915	17,058			17,058	17,352	U
230 03052081	B Distributed Common Ground/Surface Systems	07	1,303	7,114			7,114	5,195	U
235 03052191	B MQ-1 Predator A UAV	07	2,999	1,355			1,355	641	U
237 0305231	B MQ-8 UAV	07			5,000		5,000		U
250 11052191	B MQ-9 UAV	07	2,434	3,002			3,002	1,314	U
251 11052321	B RQ-11 UAV	07	1,500						U
252 1105233E	B RQ-7 UAV	07	2,900						U
253 1160279E	B Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	10,634						U
254 1160403E	B Aviation Systems	07	75,703	97,267			97,267	156,561	U
255 1160404E	B Special Operations Tactical Systems Development	07	622	821			821		U
256 1160405E	B Special Operations Intelligence Systems Development	07	27,916	25,935			25,935	7,705	U
257 1160408E	B SOF Operational Enhancements	07	75,010	51,700			51,700	42,620	U

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

vii

UNCLASSIFIED

Defense-Wide FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No 	Program Element Number		Act	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*	FY 2014 Base	S e c
258	1160421BB	Special Operations CV-22 Development	07	10,497	1,822			1,822		U
259	1160427BB	Mission Training and Preparation Systems (MTPS)	07	4,498	10,131			10,131		U
260	1160429BB	AC/MC-130J	07	18,091	19,647			19,647		U
261	1160431BB	Warrior Systems	07						17,970	U
262	1160432BB	Special Programs	07						7,424	U
263	1160474BB	SOF Communications Equipment and Electronics Systems	07	1,356	2,225			2,225		U
264	1160476BB	SOF Tactical Radio Systems	07		3,036			3,036		U
265	1160477BB	SOF Weapons Systems	07	3,002	1,511			1,511		U
266	1160478BB	SOF Soldier Protection and Survival Systems	07	2,647	4,263			4,263		U
267	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07	2,712	4,448			4,448		U
268	1160480BB	SOF Tactical Vehicles	07	4,931	11,325			11,325	2,206	U
269	1160481BB	SOF Munitions	07	1,461	1,515			1,515		U
270	1160482BB	SOF Rotary Wing Aviation	07	46,199	24,430			24,430		U
271	1160483BB	Maritime Systems	07	66,657	26,405			26,405	18,325	U
272	1160484BB	SOF Surface Craft	07	13,817	8,573			8,573		U
273	1160488BB	SOF Military Information Support Operations	07	2,694						U
274	1160489BB	SOF Global Video Surveillance Activities	07	8,923	7,620			7,620	3,304	U

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

viii

UNCLASSIFIED

Defense-Wide FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

							Emergency			
	Program				FY 2013	FY 2013	Disaster	FY 2013		S
Line	Element			FY 2012	Base Request	OCO Request	Relief Act of	Total Request	FY 2014	е
No	Number	Item	Act	(Base & OCO)	with CR Adj*	with CR Adj*	2013	with CR Adj*	Base	С
										-
275	1160490BB	SOF Operational Enhancements Intelligence	07	8,479	16,386			16,386	16,021	U
9999	99999999999	Classified Programs		3,659						U
	Opera	tional System Development		405,559	347,589	5,000		352,589	296,638	
Tota	l Research,	Development, Test & Eval, DW		483,377	427,465	5,000		432,465	372,693	

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

ix

U.S., Special Operations Command FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Program Line Element No Number	Item	Act	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*	FY 2014 Base	S e c
27 1160401BB	Special Operations Technology Development	02	40,517	28,739			28,739	29,246	U
Applied Rese	arch		40,517	28,739			28,739	29,246	
72 1160402BB	Special Operations Advanced Technology Development	: 03	31,689	45,317			45,317	46,809	U
73 1160422BB	Aviation Engineering Analysis	03	815	861			861		U
74 1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,797	4,959			4,959		U
Advanced Tec	hnology Development		37,301	51,137			51,137	46,809	
216 0304210BB	Special Applications for Contingencies	07	4,915	17,058			17,058	17,352	U
230 0305208BB	Distributed Common Ground/Surface Systems	07	1,303	7,114			7,114	5,195	U
235 0305219BB	MQ-1 Predator A UAV	07	2,999	1,355			1,355	641	U
237 0305231BB	MQ-8 UAV	07			5,000		5,000		U
250 1105219BB	MQ-9 UAV	07	2,434	3,002			3,002	1,314	U
251 1105232BB	RQ-11 UAV	07	1,500						U
252 1105233BB	RQ-7 UAV	07	2,900						U
253 1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	10,634						U
254 1160403BB	Aviation Systems	07	75,703	97,267			97,267	156,561	U
255 1160404BB	Special Operations Tactical Systems Development	07	622	821			821		U
256 1160405BB	Special Operations Intelligence Systems Development	07	27,916	25,935			25,935	7,705	U
257 1160408BB	SOF Operational Enhancements	07	75,010	51,700			51,700	42,620	U

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

25 Mar 2013

Х

U.S., Special Operations Command FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No 	Program Element Number		Act	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	FY 2013 Total Request with CR Adj*	FY 2014 Base	S e c
258	1160421BB	Special Operations CV-22 Development	07	10,497	1,822		1,822		U
259	1160427BB	Mission Training and Preparation Systems (MTPS)	07	4,498	10,131		10,131		U
260	1160429BB	AC/MC-130J	07	18,091	19,647		19,647		U
261	1160431BB	Warrior Systems	07					17,970	U
262	1160432BB	Special Programs	07					7,424	U
263	1160474BB	SOF Communications Equipment and Electronics Systems	07	1,356	2,225		2,225		U
264	1160476BB	SOF Tactical Radio Systems	07		3,036		3,036		U
265	1160477BB	SOF Weapons Systems	07	3,002	1,511		1,511		U
266	1160478BB	SOF Soldier Protection and Survival Systems	07	2,647	4,263		4,263		U
267	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07	2,712	4,448		4,448		U
268	1160480BB	SOF Tactical Vehicles	07	4,931	11,325		11,325	2,206	U
269	1160481BB	SOF Munitions	07	1,461	1,515		1,515		U
270	1160482BB	SOF Rotary Wing Aviation	07	46,199	24,430		24,430		U
271	1160483BB	Maritime Systems	07	66,657	26,405		26,405	18,325	U
272	1160484BB	SOF Surface Craft	07	13,817	8,573		8,573		U
273	1160488BB	SOF Military Information Support Operations	07	2,694					U
274	1160489BB	SOF Global Video Surveillance Activities	07	8,923	7,620		7,620	3,304	U
275	1160490BB	SOF Operational Enhancements Intelligence	07	8,479	16,386		16,386	16,021	U
O	perational	System Development		401,900	347,589	5,000	 352,589	296,638	

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

25 Mar 2013

xi

U.S., Special Operations Command FY 2014 President's Budget Exhibit R-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation: 0400D Research, Development, Test & Eval, DW

	Program				FY 2013	FY 2013	Emergency Disaster	FY 2013		q
Line	Element			FY 2012	Base Request			Total Request	FY 2014	e
No	Number	Item	Act	(Base & OCO)	with CR Adj*			with CR Adj*	Base	С
										4
Tota]	U.S., Special O	perations Command		479,718	427,465	5,000		432,465	372,693	

R-1C: FY 2014 President's Budget (Published Version), as of March 25, 2013 at 08:26:03

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

xii

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Program Element Table of Contents (by Budget Activity then Line Item Number)

-	ivity 02: Applied F on 0400: Researc	Research h, Development, Test & Evaluat	tion, Defense-Wide	•••••
Line Item	Budget Activity	Program Element Number	Program Element Title	Page
27	02	1160401BB	Special Operations Technology Development	1
-		d Technology Development (AT h, Development, Test & Evaluat		•••••
Line Item	Budget Activity	Program Element Number	Program Element Title	Page
72	03	116040200	Special Operations Advanced Technology Development	
		1160402BB	Special Operations Advanced Technology Development	7
73	03	1160422BB	Aviation Engineering Analysis	

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Budget Activity 07: Operational Systems Development Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide **Budget Activity Program Element Number Program Element Title** Page Line Item 216 07 0304210BB 230 07 0305208BB MQ-1 Predator A UAV...... 43 0305219BB 235 07 237 07 0305231BB 250 07 1105219BB 1105232BB 251 07 252 1105233BB 07 253 1160279BB Small Business Innovative Research 69 07 1160403BB 254 07 255 07 1160404BB Special Operations Tactical Systems Development...... 109 256 07 1160405BB Special Operations Intelligence Systems Development...... 115 257 SOF Operational Enhancements 127 07 1160408BB 258 07 1160421BB Special Operations CV-22 Development...... 129 259 07 1160427BB 260 07 1160429BB 261 07 1160431BB

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Budget Activity 07: Operational Systems Development Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide **Budget Activity Program Element Number** Line Item Program Element Title Page 262 07 1160432BB 263 07 1160474BB 264 1160476BB 07 265 07 1160477BB 266 07 1160478BB 07 1160479BB SOF Visual Augmentation, Lasers and Sensor Systems...... 241 267 268 07 1160480BB 269 07 1160481BB 270 07 1160482BB 271 1160483BB 07 Maritime Systems...... 277 272 07 1160484BB SOF Surface Craft...... 293 273 07 1160488BB 274 1160489BB 07 275 07 1160490BB

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line Item	Budget Activity Page
AC/MC-130J	1160429BB	260	07 147
Aviation Engineering Analysis	1160422BB	73	03 17
Distributed Common Ground/Surface Systems	0305208BB	230	07 33
MQ-1 Predator A UAV	0305219BB	235	07 43
MQ-8 UAV	0305231BB	237	07 51
MQ-9 Unmanned Aerial Vehicle	1105219BB	250	07 53
Maritime Systems	1160483BB	271	07 277
Military Information Support Operations (MISO)	1160488BB	273	07 303
Mission Training and Preparation Systems (MTPS)	1160427BB	259	07 137
RQ-11 UAV	1105232BB	251	07 61
RQ-7 UAV	1105233BB	252	07
SO Aviation Systems	1160403BB	254	07
SOF Communications Equipment and Electronics Systems	1160474BB	263	07 201
SOF Global Video Surveillance Activities	1160489BB	274	07 311
SOF Information and Broadcast Systems Advanced Technology	1160472BB	74	03 21
SOF Munitions	1160481BB	269	07 257
SOF Operational Enhancements	1160408BB	257	07 127

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2014 • RDT&E Program

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
SOF Operational Enhancements Intelligence	1160490BB	275	07	313
SOF Rotary Wing Aviation	1160482BB	270	07	265
SOF Surface Craft	1160484BB	272	07	293
SOF Tactical Radio Systems	1160476BB	264	07	209
SOF Tactical Vehicles	1160480BB	268	07	249
SOF Visual Augmentation, Lasers and Sensor Systems	1160479BB	267	07	241
SOF Weapons Systems	1160477BB	265	07	217
Small Business Innovative Research	1160279BB	253	07	69
Soldier Protection and Survival Systems	1160478BB	266	07	227
Special Applications for Contingencies	0304210BB	216	07	25
Special Operations Advanced Technology Development	1160402BB	72	03	7
Special Operations CV-22 Development	1160421BB	258	07	129
Special Operations Intelligence Systems Development	1160405BB	256	07	115
Special Operations Tactical Systems Development	1160404BB	255	07	109
Special Operations Technology Development	1160401BB	27	02	1
Special Programs	1160432BB	262	07	199
WARRIOR SYSTEMS	1160431BB	261	07	155

ORGANIZATIONS

1 SOW	1st Special Operations Wing
160th SOAR	160th Special Operations Aviation Regiment
AFSOC	Air Force Special operations Command
ARSOA	
	Army special operations Aviation
BGAD	Blue Grass Army Depot
CERDEC	Communications-Electronics Research, Development and Engineering Center
CSO	Center for Special Operations
DARPA	Defense Advanced research Projects Agency
DTRA	Defense Threat Reduction Agency
FDA	Federal Drug Administration
JSOAC	Joint Special Operations Aviation Component
MARSOC	Marine Special Operations Command
NATO	North Atlantic Treaty Organization
NAVAIR	Naval Air Systems Command
NAVSCIATTS	Naval Small Craft Instructor and Technical Training School
NAVSPECWARCOM	Naval Special Warfare Command
NSA	National Security Agency
NSWC	Naval Special Warfare Command
PMA-275	V-22 Joint Program Office
SOFSA	Special Operations Forces Support Facility
TAPO	Technology Applications Program Office
TSOC	Theater Special Operations Command
USAF	United States Air Force
USASOC	United States Army Special Operations Command
USSOCOM	United States Special Operations Command
	· · ·

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

A2C2S	Army Aviation Command & Control System
AA	Anti-Armor
AAR	After Action Review
AAWG	Alternative Analysis Working Group
ABIS	Automated Biometric Identification System
ACAT	Acquisition Category
ACO	Administrative Contracting Officer
ACP	Automatic Colt Pistol
ACTD	Advanced Concepts Technology Demonstration
ADAS	Advanced Distributed Aperture System
ADI	Attitude Direction Indicator
ADM	Area Deterrent Munitions
ADM	Acquisition Decision Memorandum
ADM-NVG	Advanced Digital Multi-Spectral Night Vision Goggle
ADP	Automated Data Processing
ADRAC	Altitude Decompression Sickness Risk Assessment Computer
ADSS	Adaptive Deployable Sensor Suite
AEA	Aviation Engineering Analysis
AECV	All Environment Capable Variant (UAS)
AESP	Autonomous Expeditionary Support Platform (medical)
AFCS	Auto Flight Control System
AFROCC	Air Force Operational Capabilities Council
AFSB	Afloat Forward Staging Base (Naval Systems)
AFSOC	Air Force Special Operations Command
AGE	Arterial Gas Embolism
AGTV	Armored Ground Tactical Vehicle
AHRS	Attitude Heading Reference System
AIP	(ASDS) Improvement Program
AIS	Automated Information System
ALE	Automatic Link Establishment
ALGL	Autonomous Landing Guidance System
ALGS	Advanced Lightweight Grenade Launcher
ALLTV	All Light Level Television
ALMBOS	Acquisition, Logistics, Management and Business Operations Support
AMHS	Automated Message Handling System
AMP	Avionics Modernization Program
AMR	Anti-Materiel Rifle
AMSA	Acquisition Management System

AMSA	Alternative Material Solution Analysis
ANA	Afghan National Army
ANP	Afghan National Police
AoA	Analysis of Alternatives
AOI	Area of Interest
AOPBS	Aircraft Occupant Ballistic Protection System
AOR	Area of Responsibility
APB	Acquisition Program Baseline
APC	Acquisition Project Category (USSOCOM)
APM	Assistant Program Manager (formerly System Acquisition Manager (SAM))
APWG	Acquisition Protection Working Group
ARAP	ASDS Reliability Action Panel
ARATS	Aircraft Radar APQ-170 Test Station
ARB	Acquisition Review Board
ARDC	Army Research Development and Engineering Center
ARL	Army Research Lab
ARL	Army Research Laboratory
ARL - UT	Applied Research Lab - University of Texas
ARV	Armored Recovery Variant (MRAP)
AS	Acquisition Strategy
AS&C	Advanced Systems Concept
ASAD	Advanced Studies and Development
ASC	Aeronautical Systems Center
ASD	Assistant Secretary of Defense
ASD (NII)	ASD for Networks and Information Integration
ASD (SO/LIC)	ASD for Special Operations and Low Intensity Conflict
ASDS	Advanced Sea, Air, Land (SEAL) Delivery System
ASE	Aircraft Survivability Equipment
ASFF	Afghanistan Security Forces Fund
ASIC	Application Specific Integrated Circuit
ASICD	Application Specific Integrated Circuit Development
ASM	Anti Structural Munitions
ASMA	Alternative Solution Materials Analysis
ASOIE	Associated Support Items of Equipment
AT&L	(OSD) Acquisition, Technology, and Logistics
ATA	Alternate (or Additional) Test Aircraft (CV-22)
ATACMS	Army Tactical Missile System
ATD	Advanced Technology Demonstration

	AC-130U Gunship Aircrew Training Devices/Testbed Advanced Threat Infrared Countermeasures
ATIRCM ATL	Advanced Tactical Laser
ATL	Asynchronous Transfer Mode
ATPIAL	Advanced Tactical Precision Illuminator Aiming Laser
ATPS	Advanced Tactical Parachute System
ATR	Above Threshold Reprogramming
AT-UBA	Advanced Technology Underwater Breathing Apparatus
ATV	All Terrain Vehicle
AUV	Armored Utility Variant (MRAP)
AvFID	Aviation Foreign Internal Defense
AWE	Aircraft, Weapons, Electronics
AWES	Area Weapons Effects Simulation
BAA	Broad Area Announcement
BAFO	Best and Final Offer
BAI	Backup Aircraft Inventory
BALCS	Body Armor Load Carriage System
BFM	Business Financial Manager
BFT	Blue Force Tracking
BGAD	Blue Grass Army Depot
BIO	Basic Input Output
BLOS	Beyond Line-of-Site
BLOSeM	Below Line-of-Site Electronic Support Measures
BMATT	Brief Multi-Mission Advanced Tactical Terminal
BMS	Battle Management System
BNVS	Binocular Night Vision System
BOD	Board of Directors
BOI	Basis of Issue
BOIA	Basis of Issue Approved
BOIP	Basis of Issue Plan
BOIR	Basis of Issue Requirement
BRP	Bombardier Recreational Products
BTR	Below Threshold Reprogramming
BUD/S	Basic Underwater Demolition School
BULLDOG XL	All-Terrain transport (AKA MUTT) vehicle
C2	Command and Control
C3I	Command, Control, Communications, and Intelligence
C4	Command, Control, Communications, and Computers

	ACKONTING
C4I	Command, Control, Communications, Computers, and Intelligence
C4IAS	Command, Control, Communications, Computers, and Intelligence Automation System
CAAP	Common Avionics Architecture for Penetration
CAAS	Common Avionics Architecture Systems
CAC	Cost Accounting Codes
CAE	Component Acquisition Executive
CAIG	Cost Analysis Improvement Group
CAIV	Cost as an Independent Variable
CALS	Continuous Acquisition and Life Cycle Support
CAMS	Combat Autonomous Mobility System
CAP	Combat Air Patrol
CAP	Cost Analysis Panel
CAPE	Cost Assessment and Program Evaluation
CAPS	Counter-Proliferation Analysis and Planning System
CAS	Close Air Support
CASEVAC	Group Level Casualty Evacuation
CAS-TIC	Close Air Support - Troops in Contact
CAT	Acquisition Category
CBA	Concealable Body Armor
CBN	Chemical, Biological and Nuclear
CBS	Cost Breakdown Structure
CCB	Configuration Control Board
CCCEKIT	Combat Casualty Care Equipment Kit
CCD	Charged Coupled Device (Forward Looking Infrared Radar Only)
CCD	Coherent Change Detection
CCFLIR	Combatant Craft Forward Looking Infrared (Radar)
ССН	Combatant Craft - Heavy
CCJO	Capstone Concept for Joint Operations
CCL	Combatant Craft - Light
CCM	Combatant Craft - Medium
CCSA	Combat Command Support Agency
CDD	Capabilities Development Document
CDR	Commander
CDR	Critical Design Review
CEP	Circular Error Probable/Probability
CEQ	Council on Environmental Quality
CERP	Capital Equipment Replacement Plan
CERP	Cost Estimating Relationships

CERTEX	Certification Exercise
CESE	Civil Engineering Support Equipment
CET	Capability Evaluation Team
CF&DR	Conditional Fielding and Deployment Release
CFE	Contractor Furnished Equipment
CFR	Code of Federal Regulations
CI	Counterintelligence
CIDS	Capabilities Integration and Development Systems
CIDS	Combat Identification
CINC	Commander in Chief
CIO	Chief Information Officer
CJSOAC	Commander Joint Special Operations Air Component
CL	Centerline (as in ASDS/JMMS)
CLR	Combat Loss Replacement
CM	Configuration Management
CMDS	Countermeasure Dispensing System
CMNS	Combat Mission Needs Statement
CMS	Combat Mission Simulator
CNO	Chief, Naval Operations
CNSWC	Commander, Naval Special Warfare Command
CNT	Combating Narco Terrorism
CNVD	Clip-On Night Vision Device
CO	Contracting Officer
COA	Cooperative Opportunity Analysis
COA	Course of Action
CODEL	Congressional Delegation
COE	Corps of Engineers
COIL	Chemical Oxygen Iodine Laser
COIL	Contract of Interest
COIL	Critical Operational Issue
COMSEC	Communications Security
CONOPS	Concept of Operations
COR	Contracting Officer's Representative
CORB	Command Operations' Review Board
CoS	Chief of Staff
COTS	Commercial-Off-The-Shelf
COW	Cost of War
СР	Concealable Pistol

СР	Counter-Proliferation
CPAF	Cost Plus Award Fee
CPARS	Contractor Performance Assessment Reporting System
CPD	Capabilities Production Document
CPI	Critical Program Information
CRB	Capability Review Board
CRIF	Consolidated Rapid Integration Facility
CRM	Comment Review Matrix
CRRC	Combat Rubber Raiding Craft
CS	Combat Swimmer
CS	Confined Space (Light Anti-Armored Weapons)
CSAR	Combat Survivor Evader Locator
CSB	Configuration Steering Board
CSEL	Combat Search and Rescue
CSH	Combat Submersible - Heavy
CSM	Combat Submersible - Medium
CSOLO	Commando Solo
CSR	Critical System Review
СТ	Counter Terrorism
СТР	Critical Technical Parameters
CTTL	Clandestine Tagging, Tracking, and Locating
CVR	Cockpit Voice Recorder
CW	Center Wing
CWG	Capability Working Group
DA	Direct Action
DAA	Designated Approval Authority
DAB	Defense Advisory Board
DAC	Defense Acquisition Challenge
DAC	Discretionary Access Control (in message system)
DAGR	Defense Advanced Global Positioning System Receiver
DAMA	Demand Assured Multiple Access
DARPA	Defense Advanced Research Projects Agency
DAS	Distributed Aperture System
DASD-CN	Deputy Secretary of Defense - Counter Narcotics
DAWG	Deputy Advisory Working Group
DCDR	Deputy Commander
DCGS	Data Common Ground/Surface System
DCS	Decompression Sickness
	•

DDL	Digital Data Link
DDP	Detachment Deployment Packages (Maritime)
DDR&E	Director, Defense Research & Engineering
DDS	Dry Deck Shelter
DEPORD	Deployment Orders
DERF	Defense Emergency Response Fund
DFARS	Defense Federal Acquisition Regulation Supplement
DFAS	Defense Finance and Accounting Service
DHEA	Dehydroepiandrosterone
DHIP	Defense Human Intelligence Program
DIAM	Data Interface Acquisition Module
DIRCM	Directional Infrared Countermeasures
DITPR	Defense Information Technology Portfolio Repository
DITPR	Directory Information Tree (message system)
DLR	Depot Level Replacements (Replenishment)
DMCS	Deployable Multi-Channel SATCOM
DMS	Defense Message System
DMS	Diminished Manufacturing Sources (ASDS)
DMT/DMR	Distributed Mission Training/Distributed Mission Rehearsal
DNI	Director National Intelligence
DoD	Department of Defense
DoDD	Department of defense Directive
DODI	Department of Defense Instruction
DOE	Department of Energy
DoP	Director of Procurement
DOTMLPF	Doctrine, Organization, Training, Material, Leadership & Education, Personnel & Facilities
DPAP	Director of Procurement and Acquisition Policy
DPPC	Deployable Print Production Center
DPS	Defense Planning Scenarios
DROG	Defense Resources Overview Guidance
DS&TI	Designated Science and Technology Information
DSLD	Dry Submersible Long Duration
DSO	Direct Support Operators
DSRV	Deep Submergence Rescue Vehicle
DSS	Deep Submergence Systems
DT&E	Development Test and Evaluation
DTA	Development & Test Aircraft
DTT	Desk Top Trainer

DUSD	Deputy Under Secretary of Defense
EA	Evolutionary Acquisition
EADS	European Aeronautical Defense & Space Company (Airbus Parent)
EADS	Expendable Airdrop Delivery System
EAPS	Engine Air Particle Separator
ECAC	Evasion and Conduct After Capture (part of SERE school)
ECHS	Enhanced Cargo Handling System
ECM	Electronic Countermeasures
ECO	Engineering Change Order
ECOS	Enhanced Combat Optical Sights
ECP	Engineering Change Proposal
EDM	Engineering Development Model
EFIS	Electronic Flight Information System
EFP	Explosively Forced Penetrator
EGLM	Enhanced Grenade Launcher Module
EIR	Embedded Integrated Broadcast System Receiver
EIRS	Enhanced Infrared Suppression
ELT	Emergency Locator Transmitter
EMD	Engineering and Manufacturing Development
EMP	Electromagnetic Pulse (weapon)
ENTR	Embedded National Tactical Receiver
EO/IR	Electro-Optical Infrared
EPRO	Environmental Protection
ERTP	Extended Trans-Regional PSYOP Program
ESA	Enhanced Situational Awareness
ESG	Expeditionary Strike Group (Naval Systems)
ESOH	Environmental Safety and Occupational Health
ESWBS	Expanded Ship Work Breakdown Structure
ETCAS	Enhanced Traffic Alert and Collision Avoidance System
ETI	Evolutionary Technology Insertion
ETV	Extreme Terrain Vehicle
EUAS	Early User Assessment
EUAS	Expeditionary UAS
EUE	Extended User Evaluation
EVM	Earned Value Management
EW	Electronic Warfare
EWAISF	Electronic Warfare Avionics Integrated Systems Facility
EWO	Electronic Warfare Officer

	ACROINTIVIS
F&DR	Fielding & Deployment Release
F2EA	Find & Fix Exploitation Analysis
F3EA	Find, Fix, Finish, Exploit, Analyze
FAA	Federal Aviation Administration
FAA	Functional Area Analysis
FAADC2	Forward Area Air Defense Command and Control
FABS	Fly-Away Broadcast System
FAR	Federal Acquisition Regulation
FATA	Federally Administered Tribal Area
FBCB2	Force XXI Battle Command, Brigade and Below
FCD	Field Computing Devices
FCT	Foreign Comparative Testing
FEPSO	Field Experimentation Program for Special operations
FID	Foreign Internal Defense
FISA	Foreign Intelligence Surveillance Act
FLIR	Forward Looking Infrared Radar
FMAV	Fleet Maintenance Availabilities
FMBS	Family of Muzzle Brake Suppressors
FMS	Foreign Military Sales
FMV	Full Motion Video
FNA	Functional Needs Analysis
FNM	Foreign & Nonstandard Materiel
FOC	Full Operational Capability
FOIA	Freedom of Information Act
FOL	Family of Loud Speakers
FOPEN	Foliage Penetration
FOS	Forward Operating Site
FOS (or FoS)	Family of Systems
FOT&E	Follow-on Test and Evaluation
FPM	Flight Performance Model
FRACAS	Failure Reporting Analysis and Corrective Action System
FSA	Functional Solutions Analysis
FSDS	Family of Sniper Detection Systems
FSOV	Family of SOF Vehicles
FSR	Field Service Representative
FSW	Family of Sniper Weapons
FSWG	Force Structure Working Group
FTE	Full Time Equivalent

FUE	First Unit Equipped
FW	Fixed Wing
FY	Fiscal Year
FYDP	Future Year(s) Defense Plan
GAB	Global Address Book (message system)
GATM	Georgia All Terrain Monsters (Vehicle Manufacturer)
GBS	Global Broadcasting System
GCC	Geographical Combatant Commanders
GDF	Guidance for the Development of the Force
GDIP	General Defense Intelligence Program
GDS	Gunfire Detection System
GDSOF	Guidance for the Development of Special Operations Forces
GEF	Global Employment of the Force
GEO	Geological
GFE	Government Furnished Equipment
GIG	Global Information Grid
GMS-2	Gunship Multispectral System - 2
GMTI	Ground Moving Target Indicator
GMV	Ground Mobility Vehicles
GM-VAS	Ground Mobility Visual Augmentation Systems
GOTS	Global Observer (UAV)
GOTS	Government-Off-the-Shelf
GPK	Gunner Protection Kit
GPPC	Gov't Property in the Possession of Contractors
GPS	Global Positioning System
GR&A	Ground Rules and Assumptions
GRID	Global War on Terrorism (GWOT) Request Information Database
GSK	Ground Signal Intelligence Kit
GSM	Global System Mobile
GSN	Global Sensor Network
GSP	Global SOF Posture
HALE	High Altitude Long Endurance
HAR	Hazard Assessment Report
HASC	House Armed Services Committee
HE	High Explosive
HEI	High Explosive Incendiary
HF	High Fragmentation (munitions)
HF	High Frequency

HFIS	Hostile Fire Indicating System
HFTTL	Hostile Forces Tagging, Tracking, and Locating
HH	Hand Held
HHI	Hand Held Imager
HIS	Human Systems Integration
HLA	High Level Architecture
HMMWV	High Mobility Multi-purpose Wheeled Vehicle
HMU	Hydrographic Mapping Unit
HOA	Head of Agency
HOA	Horn of Africa
HPFOTD	High Power Fiber Optic Towed Decoys
HPMMR	High Performance Multi-Mission Radio (PRC-117F)
HPS	Human Patient Simulator
HRLMD	Hydrographic Reconnaissance Littoral Mapping Device
HSB	High Speed Boat
HSE	Host Support Equipment
HSR	Heavy Sniper Rifle
H-SUV	Hardened-Sport Utility Vehicle
HUD	Heads Up Display
HVI	High Value Individual
HVT	High Value Target
IAS/CMS	Integration Avionics System/Cockpit Management System
ΙΑΤ	Integration Assembly & Test
IBR	Intelligence Broadcast Receiver
IBS	Integrated Bridge System (Naval System)
IBS	Integrated Broadcast Service
IC	Interim Configuration
ICA	Independent Cost Assessment
ICAD	Integrated Control and Display
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
ICLS	Interim Contractor Logistics Support
ICS	Interim Combat System (Naval Systems)
ICS	Interim Contractor Support
ICT	Integrated Concept Team
IDAP	Integrated Defensive Armed Penetrator
IDAS	Interactive Defensive Avionics Subsystem
IDS	Infrared Detection System

IDWS	Interim Defensive Weapon System (CV-22 All-Quadrant Gun)
IED	Improvised Explosive Devices
IFF	Identify Friend or Foe
IFTS	Integrated Financial Tracking System
IGPS (or iGPS)	Iridium Global Positioning System
ILM	Improved Limpet Mine
ILSP	Integrated Logistics Support Plan
ILSS	Integrated Logistics Support Strategy
IM	Insensitive Munitions
IMFP	Integrated Multi-Function Probe
INFOSEC	Information Security
INOD	Improved Night/Day Observation/Fire Control Device
INS	Inertial Navigation System
IOC	Initial Operational Capability
IOT&E	Initial Operational Test & Evaluation
IOV	Indigenous Operations Vehicle
IPC	International Program Office
IPOC	Initial Proof-of-Concept
IPT	Integrated Product Team
IPUMA	Intergraded Precision Underwater Mapping
IQAF	Iraqi Air Force
IR	Infrared
IRAM	Improvised Rocket Assisted Munitions (or Mortar)
IRCM	Infrared Countermeasures
IRD	Initial Requirements Document
ISAF	International Security Assistance Force (NATO)
ISFF	Iraqi Security Forces Fund
ISOCA	Improved Special Operations Communications Assemblage
ISP	Information Support Plan
ISP	Integrated Service Desk
ISR	Intelligence Surveillance and Reconnaissance
ISSMS	Improved SOF Manpack System
ISSO	Information Systems Security Office
IT	Information Technology
IT&E	Integrated Test & Evaluation
ITMP	Integrated Technical Management Plan
ITPP	Information Technology Project Plan
ITT	Integrated Test Team

IUID	Item Unique Identification
IWIS	Integrated Warfare Info System
JAMS	Joint Attack Munitions Systems
JBS	Joint Base Station
JCA	Joint Cargo Aircraft
JCD	Joint Capabilities Document
JCET	Joint/Combined Exercise Training
JCIDS	Joint Capabilities Integration and Development System
JCS	Joint Chiefs of Staff
JCTD	Joint Concept Technology Demonstration
JDAM	Joint Direct Attack Munitions
JDISS	Joint Deployable Intelligence Support System
JEM	Joint Enhanced Multi-Purpose Inter/Intra Team Radio
JFA	Joint Functional Area
JHL	Joint Heavy Lift
JICO	Joint Interface Control Officer
JIEDO	Joint Improvised Explosive Device Office
JMC	Joint Munitions Command
JMDSE	Joint Medical Distance Support and Evacuation
JMISC	Joint Military Info Systems Command
JMMS	Joint Multi-Mission Submersible
JMPS	Joint Mission Planning System
JMTG	Joint Military Terminology Group
JOS	Joint Operational Stocks
JPADS	Joint Precision Airdrop System
JPATS	Joint Primary Aircraft Trainer System
JPATS	Joint Process Action Team
JPG	Joint Programming Guidance
JPO	Joint Program Office
JPOTF	Joint Psychological Task Force
JREC	Joint Resources Executive Council
JRMP	Joint Resources Management Process
JROC	Joint Requirements Oversight Council
JRWG	Joint Resources Working Group
JSOAC	Joint Special Operations Aviation Components
JSOC	Joint Special Operations Command
JSOTF	Joint Special Operations Task Force
JSTAR	Joint Surveillance and Target Attack Radar System

JTAC	Joint Terminal Attack Controller
JTC	Joint Terminal Control
JTCITS	Joint Tactical C4I Information Transceiver System
JTF	Joint Task Force
JTRS	Joint Tactical Radio System
JTWS	Joint Threat Warning System
JUON	Joint Urgent Operational Need
JWSTAP	Joint Weapons Safety Technical Advisory Panel
КРР	Key Performance Parameter
LAIRCM	Large Aircraft Infrared Control Measures
LAN/WAN	Local Area Network/Wide Area Network
LASAR	Light Assault Attack Reconfigurable Simulator
LASIK	Laser-Assisted IN-Situ Keratomileusis
LASSO	Land and Sea Special Operations (mobility)
LAW	Light Assault Weapon
LBJ	Low Band Jammer
LCCE	Life Cycle Cost Estimate
LCM	Life Cycle Management
LCM	Low Cost Modifications
LCMP	Life Cycle Management Plan
LCMR	Lightweight Counter Mortar Radar
LCSM	Life Cycle Sustainment Manager
LCSMP	Life Cycle Sustainment Management Plan
LCSP	Life-Cycle Sustainment Plan
LDS	Leaflet Delivery System
LEP	Lightweight Environmental Protection
LEVUAS	Long Endurance Vertical Take Off and Landing UAS
LFT&E	Live Fire Test and Evaluation (Maritime)
LIO	Lock In/Out (on ASDS/JMMS)
LIPT	Logistics Integrated Product Team
LLTM	Long Lead Time Material
LMAMS	Lethal Miniature Aerial Munitions System
LMG	Lightweight Machine Gun
LO	Low Observable (UV)
LOE	Limited Objective Experimentation
LOGSU	Logistics and Support Unit
LOS	Line of Sight
LPD	Low Probability of Detection

LPI	Low Probability of Intercept
LPI/D	Low Probability of Intercept/Detection
LPI/LPD	Low Probability of Intercept/Low Probably of Detection
LRBS	Long Range Broadcast System
LR-GMVAS	Long Range Ground Mobility Visual Augmentation Systems
LRIP	Low Rate Initial Production
LRPP	Long Range Planning Process
LRV	Light Reconnaissance Vehicle
LSV	Logistics Support Vehicle
LTAV	Lightweight Tactical All Terrain Vehicle
LTD	Laser Target Designator
LTDR	Laser Target Designator/Rangefinder
LTI	Lightweight Thermal Imager
LTT	Locating, Tagging, Tracking
LTV	Land Transport Vehicle
LVA	Low Visibility Aviation
LVNS	Low Visibility Non-Standard (Naval Systems)
LVT	Low Volume Terminal
LWC	Littoral Warfare Craft
LWCM	Lightweight Counter-Mortar
LWIR	Long-wave Infrared
M&S	Modeling & Simulation
M2	Multi-Mission Unmanned Aircraft System
M4MOD	M4A1 SOF Carbine Accessory Kit
MAAWS	Multi-Purpose Anti-Armor/Anti-Personnel Weapons System
MACE	Multi-Agency Collaboration Environment
MAC-II	Mission Assurance Category Level 2
MADE	Maritime Access to a Denied Environment
MAIS	Major Automated Information System
MALET	Medium Altitude Long Endurance Tactical (UAS)
MANPAD	Man Portable Air Defense System
MARSOC	Military Amphibious Reconnaissance System (Army NBOE)
MARSOC	U.S. Marine Special Operations Command
MASINT	Measurement and Signature Intelligence
MATT	Multi-mission Advanced Tactical Terminal
MBE	Mission Based Experimentation
MBITR	Multi-Band Inter/Intra Team Radio
MBLT	Machine Based Language Translator

MBMMR	Multi-Band/Multi-Mission Radio
MBSS	Maritime Ballistic Survival System
MCADS	Maritime Craft Air Drop System
MCAR	MC-130 Air Refueling
MCD	Man Caused Disaster
MCU	Multipoint Conferencing Unit
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MDNA	Mini Day/Night Sight
ME	Military Equipment
MEDTECH	Special Operations Medical Technology Development
MELB	Mission Enhancement Little Bird
MET	Meteorological
MEV	Military Equipment Valuation
MFP	Major Force Program
MFP	Materiel Fielding Plan
MFP-11	Major Force Program-11
MICH	Modular Integrated Communications Helmet
MIDS	Multifunction Information Distribution System
MILDEP	Military Department
MILES	Multiple Integrated Laser Engagement System
MIP	Military Intelligence Program
MISO	Military Information Support Operations
MIST	Military Information Support Teams
MIST	Miniature ISR Technology
MIU	Munitions Interface Unit
MK 8 (or MK 8 Mod 1)	Mark 8 Sea, Air, Land (SEAL) Delivery Vehicle (SDV)
MK V	Mark V Combatant Craft
MLE	Military Liaison Element
MMA	Material Management Activity (J4)
MMB	Miniature Multiband Beacon
MOA	Memorandum of Agreement
MOE	Measures of Effectiveness
MONO-HUD	Monocular Head Up Display
MOP	Measures of Performance
MOSA	Modular Open System Architecture
MOST	Mobile Over the Snow Transport
MPARE	Mission Planning, Analysis, Rehearsal and Execution

	ACKONTINIS
MPC	Media Production Center
MPC	Multi-Purpose Canine (Military Working Dog)
МРК	Mission Planning Kits
MPOC	Mission Predator Operations Center
MQ-1	Predator Unmanned Vehicle
MQ-9	Reaper Unmanned Vehicle
MRAP	Mine Resistant Ambush Protected
MRD	Mission Rehearsal Device
MS	Milestone
MSGL	Multi-Shot Grenade Launcher
MSLO	Mass Swimmer Lock-Out
MSV	Maritime Support Vessel
MTBM	Mean Time Between Maintenance
MTPS	Master Test Plan
MTPS	Mission Training and Preparation System
MTRC	Mobile Technology Repair Center
MTs	Mission Tasks
MTT	Mobile Training Teams
MUA	Military Utility Assessment
MUTT	Mobile Utility Terrain Transport (aka Bulldog XL)
MWIR	Mid-wave Infrared
MWS	Missile Warning System
NAVAIR	Naval Aviation Systems Command
NAVSCIATTS	Naval Small Craft Instructor and Technical Training School
NAVSEA	Naval Systems Engineering Command
NAVSPECWARCOM	Naval Special Warfare Command
NBC	Nuclear, Biological, and Chemical
NBOE	Non-Gasoline Burning Outboard Engine
NC-MIO	Non-Compliant Maritime Interdiction Operations
NDAA	National Defense Authorization Act
NDI	Non-Developmental Item
NEPA	National Environmental Policy Act
NET	New Equipment Training
NGES	Northrop Grumman Electronics Systems
NGG	Next Generation Gunship
NGLDS	Next Generation Leaflet Delivery system
NGLRS	Next Generation Long Range Strike
NGSB	Northrop Grumman Ship Building

NIP	National Intelligence Program
NISH	National Institute of Severely Handicapped
NM	Nautical Miles
NMF	National Mission Force
NOSC	Network Operations Systems Center
NRE	Non-Recurring Engineering
NRT	Near Real Time
NSAV	Non-Standard Aviation
NSCV	Non Standard Commercial Vehicle
NSS	National Security Systems
NSSS (aka TENCAP)	National Systems Support to SOF
NSW	Naval Special Warfare
NSWC	Naval Special Warfare Command
NTISR	Non-Traditional Intelligence, Surveillance, Reconnaissance
NUWC	Naval Undersea Warfare Center
NVD	Night Vision Devices
NVEO	Night Vision Electro-Optic
0&M	Operations and Maintenance
OA/CW	Obstacle Avoidance/Cable Warning
OACE	Open Architecture Computing Environment
OAS	Obstacle Avoidance Sonar (or System)
OAS	Office of Aerospace Studies (Air Force)
OAS	Organization of American States
OBESA	On-Board Enhanced Situational Awareness
000	Operator Compartment (ASDS/JMMS)
000	Overseas Contingency Operations
ODNI	Office of the Director of National Intelligence
OEF	Operation Enduring Freedom
OEF-CCA	Operation Enduring Freedom - South America Caribbean/Central America
OEF-H	Operation Enduring Freedom - Horn of Africa
OEF-P	Operation Enduring Freedom - Philippines
OEF-TS	Operation Enduring Freedom - Trans Saharan Africa
OEP	Operations Effectiveness Panel
OGA	Other Government Agencies
OIF	Operation Iraqi Freedom
010	Offensive Information Operations
OMB	Office of Management and Budget
OMMS	Organizational Maintenance Manual Sets

ONS	Operational Needs Statement
OPEVAL	Operational Evaluation
OPG	Operational Planning Guidance
OPTEVOR	Operational Test and Evaluation Force
ORD	Operational Requirements Document
OSA	Open Systems Architecture
OSD	Office of the Secretary of Defense
OT	Operational Test (or Testing)
OT&E	Operational Test and Evaluation
OTA	Operational Test Agency
OTB	Over The Beach
ΟΤΙ	One Time Inspection
OTRWG	Operational Test Readiness Working Group
OWS	Operation Willing Spirit (SOUTHCOM)
P3I	Pre-Planned Product Improvement
PAB	Personal Address Book (message system)
PAC	Process Analysis Control
PACCM	Psychological Operations Automated Command and Control Module
PAI	Primary Aircraft Inventory
PAM	Penetration Augmented Munitions
PARD	Passive Acoustic Reflection Device
PC	Patrol Coastal
PCO	Procurement Contracting Officer
PCOR	Primary Contracting Officers' Representative
PDA	Personal Digital Assistant
PDAE	Principle Deputy to the Acquisition Executive
PDM	Program Decision Memorandum
PDR	Pre-Design Refinement
PDR	Preliminary Design Review
PDR	Program Deviation Report
PDS	Psychological Operations Distribution System
PED	Personal Electronic Devices
PED	Processing, Exploitation, Dissemination
PEO	Program Executive Office (or Officer)
PESHE	Programmatic Environment Safety and Occupational Health Evaluation
PFPS	Portable Flight Planning System
PFS	Principle for Safety
PGCB	Precision Guided Canister Bomb

PGM	Precision Guided Munitions
PGSE	Peculiar Ground Support Equipment
PHST	Packaging, Handling, Storage, and Transportation
PIA	Post Independent Analysis
PIA	Primary Training Aircraft Inventory
PIPT	Program Integrated Product Team
PLCCE	Program Life Cycle Cost Estimate
PLED	Polymer Light Emitting Diode
PLTD	Precision Laser Targeting Device
PM	Program (or Project) Manager
PMAC	Program Management Allocation Criteria
PM-MCD	Project Manager for Mines, Countermeasures and Demolitions
PMSOA	Program Specific Memorandum of Agreement
POBS	Psychological Operations Broadcasting System
POE	Program Office Estimate
POG	Psychological Operations Group
POM	Program Objective Memorandum
POMD	Psychological Operations Media Display
POPAS	PSYOP Planning and Analysis System
POPS	Psychological Operations Print System
POPS	PSYOP Print System
POR	Program of Record
POTUS	President of the United States
PPBE	Planning, Programming, Budget, and Execution
PPHE	Pre-Fragmented Programmable High Explosive
PPI	POM Preparation Instruction
PPIED	Pressure Plate Improvised Explosive Device
РРР	Program Protection Plan
PRK	Photo Refractive Keratectomy
PRTV	Production Representative Test Vehicle
PSAS	Persistent Surface Attack System-of-Systems
PSMOA	Program (or Project) Specific Memorandum of Agreement
PSP	Precision Strike Package
PSR	Precision Sniper Rifle
PSR	Program Support Review
PTLD	Precision Target Locator Designator
PTT	Part Task Trainer
QOT&E	Qualification Test and Evaluation/Qualification Operational Test and Evaluation

xl

QRF	Quick Reaction Force
RAA	Required Assets Available (or Availability)
RAM	Reliability, Availability, Maintainability
RAMS	Remote Activated Munitions System
RD&A	Research, Development, and Acquisition
RDT&E	Research, Development, Test, and Evaluation
REITS	Rapid Exploitation of Innovative Technologies
RFF	Request for Forces
RGR	Ranger Regiment
RIB	Rigid Inflatable Boat
RIS	Radio Integration System
RMD	Resource Management Decision
RMS	Root-Mean Square
RMWS	Remote Miniature Weather System
ROIP	Radio Over Internet Protocol (IP)
ROSES	Reduced Optical Signature Emissions System
RRT	Rapid Response Team (CMNS)
RUT	Realistic Urban Training
RVM	Requirements Validation Matrix
RW	Rotary Wing
RWR	Radar Warning Receivers
RWS	Remote Weapons Station
RWS	Remote Weapons System
S&T	Science & Technology
SADBU	Small and Disadvantaged Business Utilization
SAFC	Special Applications for Contingencies
SAGIS	SOF Air-Ground Interface Simulator
SAGIS	Study Advisory Group
SAHRV	Semi-Autonomous Hydrographic Reconnaissance Vehicle
SAMP	Single Acquisition Management Plan
SAP	Special Access Program
SAPR	Sexual Assault Prevention and Response
SAR	Selected Acquisition Report
SARC	Sexual Assault Response Coordinator
SASC	Senate Armed Services Committee
SAT	Simplified Acquisition Threshold
SAW	Small Arms and Weapons
SBIR	Small Business Innovative Research

SBR	System Baseline Review
SBSA	Small Business Set Aside
SBT	Special Boat Team
SBUD	Simulator Block Update
SCAR	SOF Combat Assault Rifle
SCAR	Strike Control and Reconnaissance (Gunship)
SCG	Security Classification Guide
SCI	Sensitive Compartmented Information
SCPC	Single Channel Per Carrier
SCSO	USSOCOM Center for Special Operations
SDD	System Design and Development
SDD	System Development and Demonstration
SDN-M	SOF Deployable Node-Medium
SDS	Sniper Detection System
SDV	Sea, Air, Land (SEAL) Delivery Vehicle
SDV-N	SEAL Delivery Vehicle - Next Generation
SE	Support Equipment
SE	Systems Engineering
SEAD	Suppression of Enemy Air Defenses
SEAL	Sea, Air, Land
SEALION	Sea, Air, Land, Insertion Observation Neutralization
SEP	Systems Engineering Plan
SERE	Survival, Escape, Resistance, and Evasion
SFA	Security Force Assistance
SHARK	SOF High-Speed Agile Reachback Kit
SIC	Special Identifiable (or identifier) Code (message system)
SIE	SOF Information Enterprise
SIE	SOF Information Environment
SIGINT	Signals Intelligence
SIL	Systems Integration Lab
SIPE	Swimming Induced Pulmonary Edema
SIPRNET	Secure Internet Protocol Router Network
SIRCM	Suite of Infrared Countermeasures
SIRFC	Suite of Integrated Radar Frequency Countermeasures
SIT	Squadron Integration Training
SKOS	Sets, Kits and Outfits
SKR	Silent Knight Radar
SLAAMRAM	Surface Launched AMRAAM

SLAM	Selectable Lightweight Attack Munitions
SLDW	SOF Logistics Data Warehouse
SLED	SOF Long Endurance Demonstrator
SLEP	Service Life Extension Program
SLNBOE	Submersible Lightweight Non-Gasoline Burning Engine
SMAX	Special Operations Command Multipurpose Antenna, X-Band
SME	Significant Military Equipment
SME	Special Mission Equipment
SME	Subject Matter Expert
SMG	SOF Machine Gun
SMRS	Special Mission Radio System
SNSL	Standard Navy Stocking List
SO	Special Operations
SOAE	Special Operations Acquisition Executive
SOAL	Special Operations Acquisition and Logistics Center
SOALIS	SOAL Information System
SOAL-L/J4	SOAL Directorate of Logistics
SOAL-M	SOAL Director of Management
SOAL-T	SOAL Directorate of Advanced Technology
SOC	Special Operations Craft (Naval Systems)
SOC	Special Operations Command
SOC-R	Special Operations Craft-Riverine
SOCRATES	Special Operations Command, Research, Analysis and Threat Evaluation System
SOCREB	Special Operations Command Requirements Evaluation Board
SOCS	Special Operation Command Surgeon
SOEP	Special Operations Eye Protection
SOF	Special Operations Forces
SOFARS	Special Operations Federal acquisition regulation Supplement
SOFC	Solid Oxide Fuel Cell
SOFDK	SOF Demolition Kit
SOFIV	SOF Intelligence Vehicle
SOFLAM	SOF Laser Acquisition Marker
SOFLRD	SOF Laser Range Finder and Designator
SOFM	Special Operations Center for Financial Management
SOFPARS	SOF Planning and Rehearsal System
SOFSA	SOF Forces Support Activity
SOFTACS	SOF Tactical Assured Connectivity System
SOFTAPS	SOF Tactical Advanced Parachute System
	-

SOFTAV	Special Operations Forces Total Asset Visibility
SOIG	Special Operations Inspector General
SOIS	Special Operations Intelligence System
SOJA	Special Operations Judge Advocate
SOJICC	Special Operations Joint Interagency Collaboration Center
SOKF	Special Operations Knowledge and Futures Center
SOLA	Special Operations Legislative Affairs
SOLL	Special Operations Low Level
SOMPE	Special Operations Mission Planning Environment
SOMROV	Special Operations Miniature Robotic Vehicle
SOMS-B	Special Operations Media Systems B
SONC	Special Operations Center for Networks and Communications
SOO	Statement of Objectives
SOP	Standard Operating Procedure
SOPGM	Standoff Precision Guided Munitions
SOPMOD	SOF Peculiar Modification
SOPMODM-4	SOF Peculiar Modification-M4 Carbine
SORR	Special Operations Force Structure, Requirements, Resources, and Strategic Assessments Center
SORR-J8-O	USSOCOM Operational Test and Evaluation Directorate
SORR-J8-R	USSOCOM Requirements Directorate
SOSE	Special Operations Safety Office
SOST	SCAR Ammo (munitions)
SOST	Special Operations Special Technology
SOTD	Special Operations Technology Development
SOTVS	Special Operations Tactical Video System
SOVAS HHI	Special Operations Visual Augmentation System Hand Held Imagers
SOW	Special Operations Wing
SOW	Statement of Work
SPC	Systems Production Certification
SPE	Senior Procurement Executive
SPEAR	SOF Personal Equipment Advanced Requirements
SPG	Strategic Planning Guidance
SPIKE	Shoulder Fired Smart Round
SPP	Strategic Planning Process
SPTC	SOF Pre-Deployment Training Cycle
SR	Surveillance and Reconnaissance
SRCP	Supplemental Resource Collection Process
SSC	Surface Support Craft

	Action mis
START	Special Threat Awareness receiver/Transmitter
SVEST	Suicide Vest
SWALIS	Special Warfare Automated Logistic Information System
TACTICOMP	Tactical Computer
TAV	Technical Availabilities
TAV	Total Asset Visibility
TAWS	Terrain Awareness and Warning System
TBI	Traumatic Brain Injury
ТСТ	Time Critical Target
TDS	Technology Development Strategy
TERESA	Tactical Edge and Response for Enhanced Situation Awareness
TES/TEZ	Test and Evaluation Strategy
THDD	Tactical Handheld Digital Devices
TILO	Technical Industrial Liaison Officer
TOS	Time on Station
TSOC	Theater Special Operations Command
TSP	Time Sensitive Planning
TST	Time Sensitive Target
TST	Trans Sahara or Trans Saharan (as in JSOTF-TS)
TTHM	Titanium Tilting Helmet Mount
UAGS	Unattended Ground Sensor
UCMM	Undersea Clandestine Maritime Mobility
UHMS	Undersea and Hyperbaric Medicine Society
USASOC	U.S. Army Special Operations Command
USG	U.S. Government
V/STOL	Vertical/Short Take-Off and Landing
VBSS	Visit, Board, Search, and Seizure (Maritime)
VESTA	Vibro-Electronic Signature Target Analysis
VSAT	Very Small Aperture Terminal
VSM	Very Small Munitions
VTC	Video Teleconferencing
WIRED	Wind Tunnel Integrated Real Time In the Cockpit/Real Time Out of the Cockpit Experiments and Demonstrations
WOT	War on Terrorism
WRM	War Reserve Materials
WRT	With Regards To
WSADS	Wind Supported Air Delivery System

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget It	em Justificat	ion: PB 201	14 United St	ates Speci	al Operatior	ns Comman	d			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research					R-1 ITEM NOMENCLATURE PE 1160401BB: Special Operations Technology 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
Total Program Element	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	Continuing	Continuir
S100: SO Technology Development	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	Continuing	Continuir
This program element enable as leverage other organization	ns' technology	projects the										
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d	ns' technology and commercia e emerging tec	projects that al organizati hnologies f	ions allows or Special C	USSOCON Operations I	l to influenc Forces. Thi	e the directi s project pro	ion of techn ovides an ir	ology devel	opment or t trategy for l	he schedul JSSOCOM	e against w to link tech	hich it is
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives.	ns' technology and commercia e emerging tec eficiencies, ca	projects that al organization hnologies for pability object	ions allows or Special C ectives, tech	USSOCOM Operations I Inology thru	I to influenc Forces. Thi ust areas, h	e the directi s project pro uman endui	ion of techn ovides an ir rance and s	ology devel vestment s ensory perf	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop	which it is inology oment
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions	projects that al organization hnologies for pability object	ions allows or Special C ectives, tech	USSOCOM operations I nnology thru FY 2012	I to influenc Forces. Thi ust areas, h <u>FY 201</u>	e the directi s project pro uman endui	ion of techn ovides an ir rance and s Y 2014 Ba	ology devel vestment s ensory perf	opment or t trategy for l	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u>	which it is inology oment
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. 3. Program Change Summary Previous President's Bu	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions idget	projects that al organization hnologies for pability object	ions allows or Special C ectives, tech	USSOCOM Operations I Inology thru	I to influenc Forces. Thi ust areas, h	e the directi s project pro uman endu 1 <u>3 F</u> 39	ion of techn ovides an ir rance and s	ology devel vestment s ensory perf <u>se</u>	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29.	which it is inology oment
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. 3. Program Change Summary	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions idget	projects that al organization hnologies for pability object	ions allows or Special C ectives, tech	USSOCOM Operations I nnology thru FY 2012 41.591	I to influenc Forces. Thi ust areas, h <u>FY 201</u> 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.2	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is inology oment o <u>tal</u> 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. 3. Program Change Summary Previous President's Bu Current President's Bu Total Adjustments • Congressiona	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions Idget Iget I General Red	projects tha al organizati hnologies f pability obje s) uctions	ions allows or Special C ectives, tech	USSOCOM operations I nology thru <u>FY 2012</u> 41.591 40.517	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is inology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. 3. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions Idget Iget I General Red I Directed Red	projects tha al organizati hnologies f pability obje s) uctions	ions allows or Special C ectives, tech	USSOCOM operations I nology thru <u>FY 2012</u> 41.591 40.517	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is nology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions idget lget I General Red I Directed Red I Rescissions	projects tha al organizati hnologies f pability obje s) uctions	ions allows or Special C ectives, tech	USSOCOM operations I nology thru <u>FY 2012</u> 41.591 40.517	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is nology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. 3. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Million idget lget I General Red I Directed Red I Rescissions I Adds	projects th al organizati hnologies f pability obje s) uctions luctions	ions allows or Special C ectives, tech	USSOCOM operations I nology thru <u>FY 2012</u> 41.591 40.517	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is inology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Million idget lget I General Red I Directed Red I Rescissions I Adds I Directed Trar	projects th al organizati hnologies f pability obje s) uctions luctions	ions allows or Special C ectives, tech	USSOCOM operations I nology thru <u>FY 2012</u> 41.591 40.517	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is nology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Reprogrammin	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions Idget I General Red I Directed Red I Rescissions I Adds I Directed Trar ngs	projects th al organizati hnologies f pability obje s) uctions luctions	ions allows or Special C ectives, tech	USSOCOM perations I nology thru <u>FY 2012</u> 41.591 40.517 -1.074 - - - - - - - -	I to influenc Forces. Thi ust areas, h FY 201 28.73 28.73	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29.	which it is inology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Reprogrammin • SBIR/STTR T	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions Idget I General Red I Directed Red I Rescissions I Adds I Directed Trar ngs ransfer	projects tha al organizati hnologies f pability obje s) uctions luctions	ions allows or Special C ectives, tech	USSOCOM perations I nology thru 41.591 40.517 -1.074 - - - - - - - - - - - - - - - - - - -	I to influenc Forces. Thi ust areas, h <u>FY 201</u> 28.73 28.73 0.00	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo 20 - -	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29. 0.	which it is inology oment 246 246 000
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Reprogrammin • SBIR/STTR T	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions idget lget I General Red I Directed Red I Directed Red I Rescissions I Adds I Directed Trar ngs ransfer tails (\$ in Mill	projects the al organization hnologies for pability object s) uctions luctions hsfers ions, and l	ions allows or Special C ectives, tech	USSOCOM perations I nology thru 41.591 40.517 -1.074 - - - - - - - - - - - - - - - - - - -	I to influenc Forces. Thi ust areas, h <u>FY 201</u> 28.73 28.73 0.00	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo 20 - -	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29. 0.	which it is inology oment otal 246 246
as leverage other organization other government agencies, a being pursued, and to acquire opportunities with capability d objectives. B. Program Change Summary Previous President's Buc Current President's Buc Total Adjustments • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Congressiona • Reprogrammin • SBIR/STTR T	ns' technology and commercia e emerging tec eficiencies, ca y (\$ in Millions Idget I General Redu I Directed Red I Directed Red I Rescissions I Adds I Directed Tran ngs ransfer tails (\$ in Mill phology Develo	projects the al organization hnologies for pability object s) uctions luctions hsfers <u>ions, and l</u> opment	ions allows or Special C ectives, tech	USSOCOM perations I nology thru 41.591 40.517 -1.074 - - - - - - - - - - - - - - - - - - -	I to influenc Forces. Thi ust areas, h <u>FY 201</u> 28.73 28.73 0.00	e the directi s project pro uman endur 1 <u>3 </u>	ion of techn ovides an ir rance and s <u>Y 2014 Ba</u> 29.24 29.24	ology devel vestment s ensory perf <u>se l</u> 46	opment or t trategy for L ormance, a	he schedul JSSOCOM nd technolo 20 - -	e against w to link tech ogy develop <u>FY 2014 T</u> 29. 29. 0.	which it is inology oment 246 246 000

Congressional Add Subtotals for Project: S100 15.000 0.000

Congressional Add Totals for all Projects 15.000 0.000

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations 7</i>	Technology Development
Change Summary Explanation Funding:		
FY 2012: Program decrease of \$1.074 million is due to a transfer	r of funds to the Small Business Innovative Re	esearch Program.
FY 2013: None.		
FY 2014: None.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research						R-1 ITEM NOMENCLATURE				Technology	ent	
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
S100: SO Technology Development	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	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

A. Mission Description and Budget Item Justification

This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments, and leverages other organizations' technology projects that may not otherwise be affordable within MFP-11. Small incremental co-investments with DoD, other government agencies, and commercial organizations allows USSOCOM to influence the schedule and direction of technology developments, emerging technologies, and capabilities for Special Operations Forces (SOF), with significant economies of investment. This USSOCOM investment strategy is used to link technology opportunities with USSOCOM capability deficiencies, capability objectives; technology thrust areas, and technology objectives. Requirements in these areas may be advertised to industry and government research and development agencies via broad area announcements and calls for white papers. Sub-projects within the Special Operations Technology Demonstration effort include:

• Special Operations Technology Development Sub-Project: This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments, and leverages other organizations' technology projects that may not otherwise be affordable within MFP-11.

• Tagging, Tracking, and Locating (TTL) Sub-Project: TTL funds Applied Research projects identified in the USSOCOM Capabilities Based Assessments. TTL applies leading edge nanotechnology, biometric and biotechnology, and chemistry S&T which is directed towards the development of revolutionary tags, taggants, sensors, communications, and data processing.

- Classified Sub-Project (provided under separate cover).
- The following technology activity was added by Congress in FY 2012:

• Congressional add: Unfunded Requirement - Increased development of multi-spectral optics which will address night vision capability gaps; assessed approaches to address unique power requirements for SOF mobility platforms; and initiated efforts to address biometric and non-lethal engagement needs. Classified unfunded requirement details are provided under separate cover.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Special Operations Technology Development	11.462	12.226	12.427
FY 2012 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	Dperations Command		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 1160401BB: Special Operations Technology Development	PROJEC S100: S		gy Developm	ent
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Pursued reduced signature technologies; developed advanced lightweight arm long duration small form factor power supplies, and alternative fuel power syste combat medical equipment and tactics. Continued pursuit of methods to reduce Developed technologies for improved Man-Machine Interface and functionality technologies that can be applied to increase human performance and enduran aid in detection of enemy intentions and movement. Continued further develop Digital Fusion, Short-Wave Infrared Radar Characterization, Power Systems a into programs of record.	ems. Continued to advance technologies for ce operator load and provide advanced protecti of Target Engagement Systems and investigat ce; pursue enhancements to technologies that poment of Multi-Spectral Optics, Digital Night Vis	e can sion,			
FY 2013 Plans: Continue ongoing technology development sub-projects in areas such as, but in advanced lightweight armor and materials; multi-domain mobility platforms; lon alternative fuel power systems and eco-friendly energy devices. Advance tech tactics; sensor and processing improvements; improve interfaces and displays of methods to reduce operator load and provide advanced protection. Develop of target engagement (escalation of force); pursue enhancements to technolog and movement; and continue development and exploration across the electron maturity metrics, transfer successful projects into programs of record.	ng duration small form factor power supplies; inologies for combat medical equipment and ; and secure communications. Continue pursu o technologies for improved and widened windo gies that can aid in detection of enemy intention	it w			
FY 2014 Plans: Continues ongoing technology development sub-projects in areas such as, but advanced lightweight armor and materials; long duration small form factor pow Advances technologies for combat medical equipment and tactics; sensor and displays; and secure communications. Continues pursuit of methods to reduce Develops technologies for improved and widened window of target engagement technologies that can aid in detection of enemy intentions and movement; and electromagnetic spectrum. Based upon agreed technology maturity metrics, tr	er supplies; and alternative fuel power systems processing improvements; improve interfaces e operator load and provides advanced protecti nt (escalation of force); pursues enhancements continues development and exploration across	s. and on. to s the			
<i>Title:</i> Tagging, Tracking, and Locating Technologies (TTL)			12.059	14.371	14.634
FY 2012 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational a exploit nanotechnology, biotechnology and chemistry for application to TTL sys DoD TTL Roadmap. Support the JCS TTL Quick Look Capability Assessment	stems. Initiated projects linked to the USSOCC				
FY 2013 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	perations Command			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 1160401BB: Special Operation Technology Development		PROJEC 3100: SO		gy Developm	nent
B. Accomplishments/Planned Programs (\$ in Millions)			F	Y 2012	FY 2013	FY 2014
Specific objectives, priorities, technical approaches, and potential operational a exploit nanotechnology, biotechnology and chemistry for application to TTL and to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approv Assessment (QL-CBA).	TTL-enabling systems. Initiate pr	ojects linked				
FY 2014 Plans: Specific objectives, priorities, technical approaches, and potential operational a exploit nanotechnology, biotechnology and chemistry for application to TTL and to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approve Assessment (QL-CBA).	TTL-enabling systems. Initiates p	rojects linke				
Title: Classified				1.996	2.142	2.185
<i>FY 2012 Accomplishments:</i> Details provided under separate cover.						
<i>FY 2013 Plans:</i> Details provided under separate cover.						
FY 2014 Plans: Details provided under separate cover.						
	Accomplishments/Planned Prog	rams Subto	tals	25.517	28.739	29.246
	ĺ	FY 2012	FY 2013	7		
Congressional Add: Unfunded Requirement		15.000	-	_		
FY 2012 Accomplishments: Expanded and enhanced current Unclassified Te as evaluating, developing, prototyping and fabricating quick reaction prototypes classified area that will provide SOF the ability to quickly transition candidate te classification. Continued integration of Multi-Spectral optics, which addresses is signature management improvements; developed power solutions for SOF mole efforts to address non-lethal engagement needs.	s. Included in this effort, is a chnologies with multiple levels of night vision capability gaps and					
	Congressional Adds Subtotals	15.000	0.000	0		
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A						
PE 1160401BB: Special Operations Technology Development						

xhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	pecial Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160401BB: Special Operations	S100: SO Technology Development
A 2: Applied Research	Technology Development	
Other Program Funding Summary (\$ in Millions)		
<u>emarks</u>		
. Acquisition Strategy		
N/A		
. Performance Metrics		
N/A		

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20	14 United St	tates Specia	ial Operations Command					DATE: April 2013		
						R-1 ITEM NOMENCLATURE PE 1160402BB: Special Operations Advanced Technolo				hnology 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
Total Program Element	974.173	31.690	45.317	46.809	-	46.809	47.630	48.192	49.223	50.252	Continuing	Continuing
S200: Advanced Technology Development	974.173	31.690	45.317	40.888	-	40.888	41.611	42.108	43.010	43.908	Continuing	Continuing
SF101: Aviation Engineering Analysis	0.000	0.000	0.000	0.876	-	0.876	0.890	0.900	0.918	0.938	Continuing	Continuing
S225: Information and Broadcast Systems Adv Tech	0.000	0.000	0.000	5.045	-	5.045	5.129	5.184	5.295	5.406	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

<u>Note</u>

Beginning in FY 2014 Special Operations (SO) Advanced Technology Development represents the approved consolidation of SO Advanced Technology Development, Program Element (PE) 1160402BB; SOF Aviation Engineering Analysis, PE 1160422BB; and SOF Information and Broadcast Systems Advanced Technology, PE 1160472BB.

A. Mission Description and Budget Item Justification

Advanced Technology Development conducts rapid prototyping and Advanced Technology Demonstrations (ATDs). ATDs provide a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. Advanced Technology Development also addresses projects that are a result of unique joint special mission or area-specific needs for which a few-of-a-kind prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase.

Aviation Engineering Analysis provides rapid response capability for the investigation, evaluation, and demonstration of technologies for SOF-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: sensor integration; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation; target detection; weapon performance integration; and future SOF aircraft requirements, both manned and unmanned.

Information and Broadcast Systems Advanced Technology conducts rapid prototyping, advanced technology demonstrations, and advanced concept technology demonstrations of information and broadcast systems technology. Includes planning, analyzing, evaluating, and production information systems capabilities and distribution/dissemination broadcast systems capabilities. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by SOF users. This project also integrates efforts with each other and conducts technology demonstrations in conjunction with joint experiments and other assessment events. Evaluation results are included in a transition package, which assists in the initiation of or insertion

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 U	Jnited States Specia	al Operations Cor	mmand	DATE	: April 2013
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOME	NCLATURE	L	
0400: Research, Development, Test & Evaluation, Defense- BA 3: Advanced Technology Development (ATD)	Wide	PE 1160402BB:	Special Operations Adv	anced Technology Dev	elopment
into an acquisition program. The project also addresses u response basis, or are of sufficient time sensitivity to accel					veloped on a rapid
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	30.242	45.317	46.356	-	46.356
Current President's Budget	31.690	45.317	46.809	-	46.809
Total Adjustments	1.448	0.000	0.453	-	0.453
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	2.229	-			
SBIR/STTR Transfer	-0.781	-			
 Other adjustments. 			0.453		0.453

Change Summary Explanation

Funding:

FY 2012: Net Increase of \$1.448 million is due to a transfer of funds to the Small Business Innovative Research Program (-\$0.781 million), and a reprogramming for higher command priorities (\$2.229 million).

FY 2013: None.

FY 2014: Net Increase of \$0.453 million is due to a realignment to higher command priorities (-\$5.468 million) and the approved consolidation of PE 1160402BB, PE 1160422BB (\$5.045 million) and PE 1160472BB (\$.870 million).

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project J	s Special C	Operations Command				DATE: April 2013						
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 3: Advanced Technology Dev	BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT velopment, Test & Evaluation, Defense-Wide PE 1160402BB: Special Operations S200: Advanced Technology Developm					fense-Wide PE 1160402BB: Special Operations S200: Advanced Technology Deve				lopment		
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
S200: Advanced Technology Development	974.173	31.690	45.317	40.888	-	40.888	41.611	42.108	43.010	43.908	Continuing C	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

A. Mission Description and Budget Item Justification

This project provides for rapid prototyping, Advanced Technology Demonstrations (ATDs) and Joint Capability Technology Demonstrations. It is a means for demonstrating and evaluating the utility of emerging/advanced technologies in operationally relevant environments with Special Operations Forces (SOF) users. This project integrates emerging technologies and presents them in technology demonstrations, in conjunction with joint experiments and other assessment events. Evaluation results often facilitate the initiation of new programs and the insertion of appropriate technologies to acquisition programs. The element also addresses unique, joint special mission or area-specific needs for which a few rapid prototypes must be developed on a responsive basis, or are of sufficient time sensitivity to accelerate prototyping efforts of a normal acquisition program in any phase. Sub-projects within the Special Operations Special Technology Development effort include:

• Rapid Exploitation of Innovative Technologies (REITS). This sub-project supports both top-down and bottom-up approaches for USSOCOM Components, Theater Special Operations Commands and Special Operations Task Forces to articulate innovative technology recommendations. Concepts, ideas, and needs will be submitted to HQ USSOCOM for review and/or approval as appropriate. Technical activities in these areas will provide new operational capabilities and will mature technologies to better shape future SOF procurements.

• Special Technology Experimentation Sub-Project. This sub-project conducts a variety of tactical network test bed venues working with the Naval Postgraduate School.

• Special Technology Coalition Global Network Sub-Project. This sub-project establishes a test-bed environment to validate operational architecture concepts; develops and evolves tactics, techniques, and procedures for a non-classified, coalition-centric, SOF communications network.

• Special Operations Special Technology Sub-Project. This sub-project integrates emerging technologies and presents them in technology demonstrations, in conjunction with joint experiments and other assessment events.

• Tagging, Tracking, and Locating (TTL) Technologies Sub-Project. TTL funds SOF unique Advanced Technology Demonstrations identified in the USSOCOM Capabilities Based Assessments. TTL rapidly prototypes and expeditiously transitions projects from laboratory to acquisition Programs of Record/operational use to address SOF capability deficiencies.

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	PE 1160402BB: Special Operations	S200: Advanced T	echnology De	velopment
BA 3: Advanced Technology Development (ATD)	Advanced Technology Development			
National to Theater Transition Sub-Project. Conduct additional tes	sting required to transition items from national forces	to theater forces.		
 Foliage Penetration Reconnaissance, Surveillance, Targeting and air vehicle improvements, and training in support of multiple operation 				
Classified Sub-Project (provided under separate cover).				
• The Special Communications Field Segment-Enterprise program i		s, networks, systems a	nd subsystem	is that
manage and provide clandestine exchange of information between	elements (field-to-field, field-to-base, base-to-field).			
Signature Management Technology Demonstrator (details provide	d under separate cover).			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Title: Rapid Exploitation of Innovative Technology (REITS) for SOF S	Sub-Project	2.228	5.598	0.00
Starting in FY 2012, REITS was executed only in Program Element 1 be returned to the Special Operations Special Technology Sub-Project development. Continued additional demonstrations and evaluations and mobility, power and energy and mobile technology repair center programs, advanced processing techniques and persistent surveillan technologies. Inserted lightweight armor and materials into existing a	ct, to more robustly support revolutionary technology of C4I technologies; warrior survivability improvemer projects. Further developed and inserted into existin ce. Continued advanced development of signature r acquisition efforts. Continued to exploit technologies	nts; ig reduction that		
and mobility, power and energy and mobile technology repair center programs, advanced processing techniques and persistent surveillan technologies. Inserted lightweight armor and materials into existing a reduce the load of the operator. Inserted into existing programs adva <i>FY 2013 Plans:</i> Continue to identify and develop technologies which can rapidly transprograms of record or direct fielding. Capabilities such as, but not lim communications applications, improved target engagement, improved	ct, to more robustly support revolutionary technology of C4I technologies; warrior survivability improvement projects. Further developed and inserted into existin ce. Continued advanced development of signature r acquisition efforts. Continued to exploit technologies anced protection and visualization, and training syste sition to support the warfighter with transition paths in hited to: SOF mobility platform improvements, mobile d materials, improved biometrics and forensics tools,	nts; ig reduction that ems. nto e non-		
Starting in FY 2012, REITS was executed only in Program Element 1 be returned to the Special Operations Special Technology Sub-Project development. Continued additional demonstrations and evaluations and mobility, power and energy and mobile technology repair center programs, advanced processing techniques and persistent surveillan technologies. Inserted lightweight armor and materials into existing a reduce the load of the operator. Inserted into existing programs adva <i>FY 2013 Plans:</i> Continue to identify and develop technologies which can rapidly transprograms of record or direct fielding. Capabilities such as, but not lim communications applications, improved target engagement, improved traditional power and energy solutions, and improved electronic warfa and limited field assessment.	ct, to more robustly support revolutionary technology of C4I technologies; warrior survivability improvement projects. Further developed and inserted into existin ce. Continued advanced development of signature r acquisition efforts. Continued to exploit technologies anced protection and visualization, and training syste sition to support the warfighter with transition paths in hited to: SOF mobility platform improvements, mobile d materials, improved biometrics and forensics tools,	nts; ig reduction that ems. nto e non-	1.900	0.00
Starting in FY 2012, REITS was executed only in Program Element 1 be returned to the Special Operations Special Technology Sub-Project development. Continued additional demonstrations and evaluations and mobility, power and energy and mobile technology repair center programs, advanced processing techniques and persistent surveillan technologies. Inserted lightweight armor and materials into existing a reduce the load of the operator. Inserted into existing programs advanced programs of record or direct fielding. Capabilities such as, but not lim communications applications, improved target engagement, improved traditional power and energy solutions, and improved electronic warfalled.	ct, to more robustly support revolutionary technology of C4I technologies; warrior survivability improvement projects. Further developed and inserted into existin ce. Continued advanced development of signature re acquisition efforts. Continued to exploit technologies anced protection and visualization, and training syste sition to support the warfighter with transition paths in hited to: SOF mobility platform improvements, mobile d materials, improved biometrics and forensics tools, are solutions will be evaluated for development, protection	nts; ig reduction that ems. nto e non- otyping, 2.250	1.900	0.00

United States Special Operations Command

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States S	Special Operations Command	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 1160402BB: Special Operations Advanced Technology Development	PROJECT S200: Advanced 7	echnology De	velopment
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Conduct field experimentations at various venues to facilitate technolog	gy insertion.			
Title: Special Technology Coalition Global Network Sub-Project		1.500	0.000	0.000
FY 2012 Accomplishments: Established a test-bed environment to validate operational architecture procedures for a non-classified, coalition-centric, SOF communications		es, and		
Title: Special Operations Special Technology Sub-Project		6.837	10.666	12.78 ⁻
FY 2012 Accomplishments: Developed and inserted technology into existing programs. Technolog profiles; improved weapons, lightweight armor and materials; alternativ duration, reduced size, high output power supplies; and technologies the supplication of the suppli	e power systems; "green" sustainable energy device			
FY 2013 Plans: Continue to develop and insert technology into existing programs. Tec profiles; improved weapons; lightweight armor and materials; alternativ devices; long duration, reduced size, high output power supplies; and t development of technologies supporting undersea mobility; develop gro survivability. Evaluate and develop sensors across the electromagnetic agreed technology maturity metrics, transfer successful projects into pr	re power systems; eco-friendly sustainable energy technologies that reduce the load of the operator. In ound mobility solutions for improved endurance and c spectrum to meet operational requirements. Base	nitiate I		
<i>FY 2014 Plans:</i> Continues to develop and insert technology into existing programs. Te signature profiles; improved weapons; lightweight armor and materials; energy devices; long duration, reduced size, high output power supplie Initiate development of technologies supporting undersea mobility; dev survivability. Evaluates and develops sensors across the electromagneupon agreed technology maturity metrics, transfer successful projects i at various venues to facilitate technology insertion.	; alternative power systems; eco-friendly sustainables; and technologies that reduce the load of the operelop ground mobility solutions for improved endurate tic spectrum to meet operational requirements.	rator. nce and ased		
Title: Tagging, Tracking, and Locating Technologies (TTL) Sub-Project	t	13.560	18.010	13.143
FY 2012 Accomplishments: Specific objectives, priorities, technical approaches, and potential operative recently-proven and emerging technologies for TTL and TTL-enabling structures.				

PE 1160402BB: Special Operations Advanced Technology Development UN United States Special Operations Command

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial Operations Command	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY		PROJECT		
0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	PE 1160402BB: Special Operations Advanced Technology Development	S200: Advanced Te	echnology De	velopment
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-Assessment (QL-CBA).	approved annual TTL Quick-Look Capabilities-Based			
FY 2013 Plans: Specific objectives, priorities, technical approaches, and potential operative recently-proven and emerging technologies for TTL and TTL-enabling sy to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-Assessment (QL-CBA).	stems. Continue projects toward maturity that are link			
<i>FY 2014 Plans:</i> Specific objectives, priorities, technical approaches, and potential operat recently-proven and emerging technologies for TTL and TTL-enabling sy to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8- Assessment (QL-CBA).	stems. Continues projects toward maturity that are lin			
Title: National to Theater Transition		2.909	1.993	2.054
FY 2012 Accomplishments: Conducted additional testing and evaluation required on various equipment	ent items being transitioned to the SOF Theater Force	S.		
FY 2013 Plans: Conduct additional testing and evaluation required on various equipment	t items being transitioned to the SOF Theater Forces.			
FY 2014 Plans: Conducts additional testing and evaluation required on various equipment	nt items being transitioned to the SOF Theater Forces			
Title: Foliage Penetration Reconnaissance, Surveillance, Targeting and	Engagement Radar (YMQ-18A Unmanned Aerial Veh	icle) 0.445	0.000	0.000
FY 2012 Accomplishments: Conducted planning, payload integration, air vehicle improvements and to evaluate the military utility of the YMQ-18A unmanned aerial vehicle.	training in support of multiple operational demonstration	ns		
Title: Classified Sub-Project		1.961	2.050	2.110
<i>FY 2012 Accomplishments:</i> Details provided under separate cover.				
<i>FY 2013 Plans:</i> Details provided under separate cover.				
FY 2014 Plans:				

pecial Operations Command	DATE:	April 2013		
	PROJECT S200: Advanced Technology Development			
	FY 2012	FY 2013	FY 2014	
	0.000	5.100	0.00	
nunications enterprise, as well as the development of	9			
	0.000	0.000	10.80	
Accomplishments/Planned Programs Subt	otals 31.690	45.317	40.88	
	ogram Element 1160474BB. Initial focus will be on the nunications enterprise, as well as the development of	R-1 ITEM NOMENCLATURE PROJECT PE 1160402BB: Special Operations S200: Advanced To Advanced Technology Development FY 2012 0.000 ogram Element 1160474BB. Initial focus will be on the nunications enterprise, as well as the development of ors. 0.000	R-1 ITEM NOMENCLATURE PE 1160402BB: Special Operations Advanced Technology Development PROJECT S200: Advanced Technology Development FY 2012 FY 2013 0.000 5.100 ogram Element 1160474BB. Initial focus will be on the nunications enterprise, as well as the development of ors. 0.000 0.000 0.000 0.000 0.000 0.000	

Exhibit R-2A, RDT&E Project 、	Justification:	PB 2014 l	Jnited State	s Special C	Operations (Command			7	DATE: A	oril 2013	
APPROPRIATION/BUDGET AC		tion Defe							PROJEC			lucia
)400: Research, Development, 3A 3: Advanced Technology De			ise-wide			02BB: Spec Technology			SF101: A	viation Eng	ineering Ana	iysis
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
SF101: Aviation Engineering Analysis	0.000	0.000	0.000	0.876) –	0.876	0.890	0.900	0.918	3 0.93	8 Continuing	Continuin
[#] FY 2013 Program is from the	FY 2013 Pre	sident's Bu	dget, submi	tted Februa	ary 2012						,	
## The FY 2014 OCO Request	will be submit	tted at a lat	er date									
A. Mission Description and Bu	-											
This project provides a rapid re												
improve asset life, and enhance	ce mission ca	pability thro	ough the me	ans of feas	sibility studie	es, analysis	of alternativ	ves, pre-dev	velopmenta	I risk reduc	tion studies,	and
engineering analyses. This pro	pject provides	the engine	ering requir	ed to impro	ove the desi	gn and perf	ormance int	egrity of the	e aircraft si	upport syste	ems, sub-sys	tems,
equipment, and embedded co												
life extensions. This project al												
								0 0,		·	ŕ	
B. Accomplishments/Planned	• ·	in Million	<u>s)</u>						F	Y 2012	FY 2013	FY 2014
Title: Aviation Engineering Anal	lysis									0.000	0.000	0.87
FY 2014 Plans:												
Performs engineering studies, d	lemonstration	s, and ana	lyses for fixe	ed wing avia	ation SOF-u	inique equip	oment and n	nissions.				
					Accomplis	shments/Pl	anned Prog	grams Sub	totals	0.000	0.000	0.87
	(
C. Other Program Funding Su	<u>mmary (\$ In</u>	<u>millions)</u>										
N/A Democritica												
<u>Remarks</u>												
D. Acquisition Strategy												
N/A												
E. Performance Metrics												
N/A												

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					PE 116040		ATURE ial Operation Developme		PROJECT S225: Infor Adv Tech	S225: Information and Broadcast 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	
S225: Information and Broadcast Systems Adv Tech	0.000	0.000	0.000	5.045	-	5.045	5.129	5.184	5.295	5.406	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

A. Mission Description and Budget Item Justification

This project conducts rapid prototyping of information and broadcast system technology. This includes cyber capabilities that predict the best media channels to reach potential target audiences, data mining and information collections tools, propaganda and social behavior analytical tools, cultural analysis toolsets and emerging technologies that support the planning and analytical needs for the Military Information Support Operations (MISO) forces. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by SOF users. This project integrates efforts and conducts technology demonstrations in conjunction with joint experiments and other assessment events and performs market research on emerging technologies that support all phases of MISO. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The project also addresses unique, joint special mission or area-specific needs. Seeks technologies that will transform current MISO capabilities through two major objectives: 1) Exploit technologies capable of disseminating products to reach target audiences across a variety of media to include audiences in denied areas. 2) Automate and improve MISO planning and analytical capability through technologies that are integrated into SOF planning systems (Cultural Analysis, Targeting, Theme Development, Media & Product Selection, Distribution & Dissemination, and Measures of Effectiveness). Develops software applications that increase the efficiency and shorten the timeline to get MISO dissemination packages approved. Develops hardware/software tools that facilitate the collaboration and sharing of information and other critical data.

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by ATDs and JCTDs to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation (AM) and frequency modulation (FM) radio transmitters and antenna; television (TV) transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies capable of disseminating MISO products to reach target audiences across a wide variety of media into denied areas; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: MISO Modernization	0.000	0.000	5.045
FY 2014 Plans:			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial Operations Command		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJ	IECT		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160402BB: Special Operations		Information a	nd Broadcas	t Systems
BA 3: Advanced Technology Development (ATD)	Advanced Technology Development	Adv T	ech		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Continues to develop and insert technology into existing programs.					
	Accomplishments/Planned Programs S	ubtotals	0.000	0.000	5.04
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
N/A					
E. Performance Metrics					
N/A					

Exhibit R-2, RDT&E Budget Iten APPROPRIATION/BUDGET AC1	ΓΙVITY			lates Specia	R-1 ITEM N	NOMENCLA	TURE			DATE: Apr	11 2013	
0400: Research, Development, Te BA 3: Advanced Technology Deve			se-Wide		PE 116042	2BB: Aviatio	on Enginee	ring Analysi	S			
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	8.203	0.815	0.861	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuin
SF101: Aviation Engineering Analysis	8.203	0.815	0.861	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuin
[#] FY 2013 Program is from the F	Y 2013 Pres	sident's Bu	daet. submit	ted Februa	rv 2012	I					I	
^{##} The FY 2014 OCO Request w			-									
<u>Note</u>												
<u>Note</u> Beginning in FY2014, this Progr	am Element	t has been	consolidate	d into SOC	OM Progran	n Element 1	160402BB,	Advanced	Technology	Developm	ent.	
Beginning in FY2014, this Progr				d into SOC	OM Progran	n Element 1	160402BB,	Advanced	Technology	v Developm	ent.	
Beginning in FY2014, this Progr A. Mission Description and Buc	lget Item Ju	ustification	ļ		C					·		
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides	lget Item Jι rapid respor	istification nse capabil	ity for the in	vestigation,	, evaluation,	, and demor	nstration of	echnologie	s for Specia	al Operatior	ns Forces (S	
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T	Iget Item Ju rapid respor imely applic	ustification nse capabil ation of SO	ity for the in F-unique te	vestigation, chnology is	, evaluation, critical and	, and demor	nstration of t	echnologie uirements ii	s for Specia n such area	al Operation	ns Forces (S sor integrati	on;
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness	Iget Item Ju rapid respor imely applic s; near-real-t	istification nse capabil ation of SO time intellig	ity for the in F-unique te ence to incl	vestigation, chnology is ude data fu	, evaluation, critical and sion, threat	, and demor necessary detection ar	nstration of to meet req nd avoidance	echnologie uirements i e; electroni	s for Specia n such area ic support m	al Operation is as: sens neasures fo	ns Forces (S sor integrati r threat geo	on; o-location
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T	Iget Item Ju rapid respor imely applic s; near-real-t	istification nse capabil ation of SO time intellig	ity for the in F-unique te ence to incl	vestigation, chnology is ude data fu	, evaluation, critical and sion, threat	, and demor necessary detection ar	nstration of to meet req nd avoidance	echnologie uirements i e; electroni	s for Specia n such area ic support m	al Operation is as: sens neasures fo	ns Forces (S sor integrati r threat geo	on; o-location
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification	Iget Item Ju rapid respor imely applic s; near-real-t n; navigatior	ustification nse capabil ation of SO time intellig n; target de	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr	, evaluation, critical and sion, threat mance integ	and demor necessary detection au ration; and	nstration of t to meet req nd avoidanc future SOF	echnologie uirements in e; electroni aircraft requ	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo d and unma	on; o-location anned.
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Iget Item Ju rapid respor imely applic s; near-real-1 n; navigation \$ in Million	ustification nse capabil ation of SO time intellig n; target de	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u>	, evaluation, critical and sion, threat nance integ FY 201	and demor necessary detection ar ration; and f	nstration of f to meet req nd avoidand future SOF Y 2014 Bas	echnologie uirements i æ; electroni aircraft requ e	s for Specia n such area ic support m	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat gec ad and unma FY 2014 To	on; o-location anned. otal
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budg	Iget Item Ju rapid respor imely applica s; near-real-t n; navigation \$ in Million get	ustification nse capabil ation of SO time intellig n; target de	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837	, evaluation, critical and sion, threat nance integ <u>FY 201</u> 0.86	, and demor necessary detection at ration; and f <u>3 </u>	nstration of t to meet req nd avoidand future SOF Y 2014 Bas 0.87	echnologie uirements in e; electroni aircraft requ <u>se l</u>	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo d and unma <u>FY 2014 To</u> 0.8	on; -location anned. <u>otal</u> 876
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge	Iget Item Ju rapid respor imely applica s; near-real-t n; navigation \$ in Million get	ustification nse capabil ation of SO time intellig n; target de	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments	Iget Item Ju rapid respor imely applic s; near-real-t n; navigatior \$ in Million s get et	ustification nse capabil ation of SO time intellig n; target de <u>s)</u>	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837	, evaluation, critical and sion, threat nance integ <u>FY 201</u> 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF Y 2014 Bas 0.87	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; -location anned. <u>otal</u> 876
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional G	Iget Item Ju rapid respor imely applic s; near-real-t n; navigation \$ in Millions get et General Red	ustification nse capabil ation of SO time intellig n; target de <u>s)</u> uctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional C • Congressional D	Iget Item Ju rapid respor imely applic s; near-real-f n; navigation \$ in Millions get et General Red Directed Red	ustification nse capabil ation of SO time intellig n; target de <u>s)</u> uctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional G • Congressional G	Iget Item Ju rapid respor imely applic s; near-real-f n; navigation \$ in Millions get et General Redu Directed Red Rescissions	ustification nse capabil ation of SO time intellig n; target de <u>s)</u> uctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, t	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional C • Congressional C • Congressional R • Congressional A	Aget Item Ju rapid respor imely applic s; near-real-1 n; navigation \$ in Millions get et General Red Directed Red Rescissions	ustification nse capabil ation of SO time intellig n; target de s) uctions luctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, b	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional D • Congressional D • Congressional D • Congressional D	Iget Item Ju rapid respor imely applic s; near-real-t n; navigation \$ in Millions get et General Red Directed Red Rescissions adds Directed Trar	ustification nse capabil ation of SO time intellig n; target de s) uctions luctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, b	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000
Beginning in FY2014, this Progr A. Mission Description and Buc This program element provides unique aviation requirements. T enhanced situational awareness and specific emitter identification B. Program Change Summary (Previous President's Budge Current President's Budge Total Adjustments • Congressional C • Congressional C • Congressional R • Congressional A	Iget Item Ju rapid respor imely applic s; near-real-t n; navigation \$ in Millions get et General Red Directed Red Rescissions adds Directed Trans	ustification nse capabil ation of SO time intellig n; target de s) uctions luctions	ity for the in F-unique te ence to incl tection; wea	vestigation, chnology is ude data fu pon perforr <u>FY 2012</u> 0.837 0.815	, evaluation, critical and sion, threat mance integ <u>FY 201</u> 0.86 0.86	and demornecessary detection and ration; and f <u>3</u> <u><u>F</u> 1</u>	nstration of t to meet req nd avoidand future SOF <u>Y 2014 Bas</u> 0.87 0.00	echnologie uirements in e; electroni aircraft requ <u>se [</u> 76 00	s for Specia n such area ic support n uirements, b	al Operation is as: sens neasures fo poth manne	ns Forces (S sor integrati r threat geo ad and unma <u>FY 2014 To</u> 0.4	on; b-location anned. otal 876 000

Funding:

FY 2012: Decrease is due to a transfer of funds to Small Business Innovative Research (\$-0.022 million).

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States		DATE: April 2013
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 1160422BB: <i>Aviation Engineering Analysis</i>	
FY 2013: None.		
FY 2014: Decrease of \$-0.876 due to this Program Element bei	ing consolidated into SOCOM Program Element 116040	2BB beginning in FY 2014.
Schedule: None.		
Technical: None.		

	Justification:	PB 2014 L	Jnited State	s Special C	perations C	ommand				DATE: Ap	ril 2013	
APPROPRIATION/BUDGET AC						NOMENCL			PROJECT			
)400: Research, Development, 3A 3: Advanced Technology De			se-Wide		PE 116042 Analysis	2BB: Aviati	on Enginee	ring	SF101: Av	iation Engii	neering Ana	lysis
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
SF101: Aviation Engineering Analysis	8.203	0.815	0.861	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuin
[#] FY 2013 Program is from the	FY 2013 Pre	sident's Bu	dget, submi	tted Februa	ry 2012							
A. Mission Description and Bu This project provides a rapid re improve asset life, and enhance engineering analyses. This pro equipment, and embedded con	esponse capa ce mission ca pject provides	bility to sup bability thro the engine	oport SOF fi ough the me ering requir	ans of feas ed to impro	ibility studie	s, analysis o gn and perfo	of alternativ ormance int	es, pre-dev egrity of the	elopmental aircraft su	risk reduct	ion studies, ms, sub-sys	and tems,
life extensions. This project al 3. Accomplishments/Planned	so conducts i	isk reductio	on studies, a						critical weap	oons and se		
<i>Title:</i> Aviation Engineering Anal	•		<u>-</u>							0.815	0.861	0.00
FY 2012 Accomplishments: Performed engineering studies a	-	for fixed wi	ng aviation	SOF-uniqu	e equipmen	t and missio	ons.					
FY 2013 Plans:												
Perform engineering studies and	d analyses fo	r fixed wing	aviation SC)F-unique e	equipment a	nd missions	3.					
					Accomplis	hments/Pla	anned Prog	grams Sub	totals	0.815	0.861	0.00
		<u>Millions)</u>										

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	14 United S	tates Speci	al Operation	ns Comman	ıd			DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY 1400: Research, Development, Test & Evaluation, Defense-Wide 3A 3: Advanced Technology Development (ATD)					1	NOMENCLA 72BB: SOF		and Broadd	ast System	s Advanced	d Technology	/	
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	14.142	4.797	4.959	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.898	
S225: SOF Information and Broadcast Systems Adv Tech	14.142	4.797	4.959	S225: SOF Information and 14.142 4.797 4.959 0.000 - 0.000 0.000 0.000 0.000 23.898									

[#] 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

<u>Note</u>

Beginning in FY2014, this Program Element (PE) 1160472BB, SOF Information and Broadcast Systems Advanced Technology has been consolidated into SOCOM PE 1160402BB, Special Operations Advanced Technology Development.

A. Mission Description and Budget Item Justification

This Program Element (PE) conducts rapid prototyping, advanced technology demonstrations, and advanced concept technology demonstrations of information and broadcast systems technology. Includes planning, analyzing, evaluating, and production information systems capabilities and distribution/dissemination broadcast systems capabilities. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. This PE integrates efforts with each other and conducts technology demonstrations in conjunction with joint experiments and other assessment events. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The PE also addresses unique, joint special mission or area-specific needs for which prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	4.924	4.959	5.045	-	5.045
Current President's Budget	4.797	4.959	0.000	-	0.000
Total Adjustments	-0.127	0.000	-5.045	-	-5.045
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.127	-			
Other Adjustments	-	-	-5.045	-	-5.045

PE 1160472BB: SOF Information and Broadcast Systems Advanced Tec...

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	·
0400: Research, Development, Test & Evaluation, Defense-Wide 3A 3: Advanced Technology Development (ATD)	PE 1160472BB: SOF Information and Broad	adcast Systems Advanced Technology
Change Summary Explanation		
Funding:		
FY 2012: Decrease of \$0.127 million is due to a transfer of funds	s to Small Business Innovative Research.	
FY 2013: None.		
FY 2014: Decrease of \$5.045 million is due to beginning in FY20	014, this Program Element (PE) 1160472BB has b	een consolidated into SOCOM PE 1160402B
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										il 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					PE 1160472BB: SOF Information and S225					JECT : SOF Information and Broadcast oms Adv Tech		
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
S225: SOF Information and Broadcast Systems Adv Tech	14.142	4.797	4.959	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.898

[#] 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 conducts rapid prototyping of information and broadcast system technology. This includes cyber capabilities that predict the best media channels to reach potential target audiences, data mining and information collections tools, propaganda and social behavior analytical tools, cultural analysis toolsets and emerging technologies that support the planning and analytical needs for the Military Information Support Operations (MISO) forces. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by SOF users. This project integrates efforts and conducts technology demonstrations in conjunction with joint experiments and other assessment events and performs market research on emerging technologies that support all phases of MISO. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The project also addresses unique, joint special mission or area-specific needs. Seeks technologies that will transform current MISO capabilities through two major objectives: 1) Exploit technologies capable of disseminating products to reach target audiences across a variety of media to include audiences in denied areas. 2) Automate and improve MISO planning and analytical capability through technologies that are integrated into SOF planning systems (Cultural Analysis, Targeting, Theme Development, Media & Product Selection, Distribution & Dissemination, and Measures of Effectiveness). Develops software applications that increase the efficiency and shorten the timeline to get MISO dissemination packages approved. Develops hardware/software tools that facilitate the collaboration and sharing of information and other critical data.

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by ATDs and JCTDs to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation (AM) and frequency modulation (FM) radio transmitters and antenna; television (TV) transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies capable of disseminating MISO products to reach target audiences across a wide variety of media into denied areas; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: MISO Modernization	4.797	4.959	0.000
FY 2012 Accomplishments:			

PE 1160472BB: SOF Information and Broadcast Systems Advanced Tec... United States Special Operations Command

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 3: Advanced Technology Development (ATD)			R-1 ITEM NOMENCLATURE PE 1160472BB: SOF Information and Broadcast Systems Advanced Technology				PROJECT S225: SOF Information and Broadcast Systems Adv Tech				
B. Accomplishments/Planned Programs (\$ in Millions)								F	Y 2012	FY 2013	FY 2014
Distributed audio media analysis c development of Distributable Audio automated production capabilities	Media (DAM)	/Scatterable	Media (SM)	prototype th	at will confi						
Prototyped an enterprise environm integrating various software tools t					process of t	he seven pha	ases of MISC) while			
Created a cultural information data increasing the ability to collaborate					O atmosphe	erics while ex	ponentially				
The automated MISO planning too of systems. SAVANT is also used								family			
FY 2013 Plans: Continue to transition previously de	eveloped techn	ologies to p	rograms of r								
				Accor	nplishment	s/Planned P	rograms Su	btotals	4.797	4.959	0.00
C. Other Program Funding Sumr	nary (\$ in Milli	ions)			EX 0044					0 t T .	
Line Item • PROC1: Military Information Support Operations Remarks	<u>FY 2012</u> 4.142	<u>FY 2013</u> 27.417	<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> 0.000	Total Cos
D. Acquisition Strategy N/A											
<u>E. Performance Metrics</u> N/A											
PE 1160472BB: SOF Information a	nd Broadcast S	Svstems Adv	vanced								

9999: Special Applications for Contingencies 195.046 4.9 ** FY 2013 Program is from the FY 2013 President's *** The FY 2014 OCO Request will be submitted at a A. Mission Description and Budget Item Justificar This program element develops and deploys special (SOF) using non-traditional means. It provides a m (SAFC) applies focused Research & Development denied areas. This program also specifically addre leading edge solutions to an emergent problem set approval process. B. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:	2014 United	States Specia	•	NOMENCL				DATE: Ap	11 2013	
COST (\$ In Millions)YearsFY 20Total Program Element195.0464.92999: Special Applications for Contingencies195.0464.9# FY 2013 Program is from the FY 2013 President's ## The FY 2014 OCO Request will be submitted at a A. Mission Description and Budget Item Justificat This program element develops and deploys special (SOF) using non-traditional means. It provides a m (SAFC) applies focused Research & Development denied areas. This program also specifically addres leading edge solutions to an emergent problem set approval process.B. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Congressional General Reductions • Congressional Directed Reductions • Congressional Directed Transfers • Reprogrammings • SBIR/STTR TransferChange Summary Explanation Funding:	fense-Wide			0BB: Speci		ons for Con	tingencies			
9999: Special Applications for Contingencies 195.046 4.9 ** FY 2013 Program is from the FY 2013 President's *** The FY 2014 OCO Request will be submitted at a A. Mission Description and Budget Item Justifica : This program element develops and deploys specia (SOF) using non-traditional means. It provides a m (SAFC) applies focused Research & Development denied areas. This program also specifically addre leading edge solutions to an emergent problem set approval process. B. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:	2 FY 2013	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Contingencies ** FY 2013 Program is from the FY 2013 President's ** The FY 2014 OCO Request will be submitted at a A. Mission Description and Budget Item Justificar This program element develops and deploys special (SOF) using non-traditional means. It provides a m (SAFC) applies focused Research & Development denied areas. This program also specifically addre leading edge solutions to an emergent problem set approval process. B. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Congressional General Reductions • Congressional Directed Reductions • Congressional Directed Transfers • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:	15 17.05	17.352	-	17.352	17.645	17.836	18.218	18.598	Continuing	Continuin
 ## The FY 2014 OCO Request will be submitted at a A. Mission Description and Budget Item Justificar This program element develops and deploys special (SOF) using non-traditional means. It provides a mean (SAFC) applies focused Research & Development denied areas. This program also specifically address leading edge solutions to an emergent problem set approval process. B. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Total Adjustments Congressional General Reductions Congressional Directed Reductions Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer 	15 17.05	17.352	-	17.352	17.645	17.836	18.218	18.598	Continuing	Continuin
(SAFC) applies focused Research & Development denied areas. This program also specifically addre leading edge solutions to an emergent problem set approval process. 3. Program Change Summary (\$ in Millions) Previous President's Budget Current President's Budget Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Rescissions • Congressional Adds • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:	<u>ion</u> I capabilities									
Previous President's Budget Current President's Budget Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Rescissions • Congressional Adds • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:	R&D) for rela sses short lea	atively low cos ad-time contin	st solutions igency plan	to provide r ning require ugh a speci	emotely cor ements whe	ntrolled syst re focused ff/Office of t	em emplac R&D will all	ement and ow for test ry of Defen	data exfiltra and evaluat	ation from tion of hartered
Current President's Budget Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Rescissions • Congressional Adds • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:							FY 2014 OC	<u>.u</u>		
Total Adjustments • Congressional General Reductions • Congressional Directed Reductions • Congressional Rescissions • Congressional Adds • Congressional Directed Transfers • Reprogrammings • SBIR/STTR Transfer Change Summary Explanation Funding:		5.045	17.05		17.3			-		352
Congressional General Reductions Congressional Directed Reductions Congressional Rescissions Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation Funding:		4.915	17.05		17.3			-		352
 Congressional Directed Reductions Congressional Rescissions Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation Funding:		-0.130	0.00	0	0.00	00		-	0.	000
 Congressional Rescissions Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation Funding:		-		-						
 Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation Funding:		-		-						
Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer <u>Change Summary Explanation</u> Funding:		_		_						
Reprogrammings SBIR/STTR Transfer Change Summary Explanation Funding:		_		_						
SBIR/STTR Transfer Change Summary Explanation Funding:		-		_						
Funding:		-0.130		-						
FY 2012: Decrease of -\$0.130 million is due	o a transfer o	of funds to the	e Small Bus	iness Innov	ative Progra	am.				
FY 2013: None.					Ū					

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0304210BB: Special Applications for Co.	ntingencies
FY 2014: None.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project	Justification	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Ap	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defer	ose-Wide			NOMENCLA 10BB: Speca cies	-	ions for	PROJECT 9999: Spe Contingen	cial Applica	ations for	
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
9999: Special Applications for Contingencies	195.046	4.915	17.058	17.352	-	17.352	17.645	17.836	18.218	18.598	Continuing	Continuin
Quantity of RDT&E Articles												
using non-traditional means. I (SAFC) applies focused Research This program also specifically solutions to an emergent prob	arch and Dev addresses sh	elopment (F nort lead-tim	R&D) for relance continger	atively low hcy plannin	cost solution g requireme	ns to providents where f	e remotely of ocused R&	controlled s D will allow	ystem empl for test and	acement a	nd data infilt	tration.
B. Accomplishments/Planned	Programs (\$	in Million	<u>s)</u>						FY	2012	FY 2013	FY 2014
Title: Special Applications for C	ontingencies	(SAFC)								4.915	17.058	17.35
FY 2012 Accomplishments: Continued development and confor global contingencies includinand quick reaction systems.				• •				•				
FY 2013 Plans: Continue development and com Surveillance and Reconnaissan evaluate unique sensor technolo	ce (ISR) capa	abilities for	global contir	ngencies in	cluding sho			•	0			
EV 0044 Dlawas												

FY 2014 Plans:

Continues development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continues to evaluate unique sensor technologies, persistent stare and quick reaction systems.

4.915

17.058

Accomplishments/Planned Programs Subtotals

27

17.352

Exhibit R-2A, RDT&E Project J	lustification: PB	2014 United	States Spe	cial Operatio	ons Comman	d			DATE: April 2013
APPROPRIATION/BUDGET AC 0400: Research, Development, 7 BA 7: Operational Systems Deve	Test & Evaluation	, Defense-W	lide	PE 03	EM NOMEN 04210BB: S ngencies		ations for	PROJEC 9999: Spe Continger	ecial Applications for
C. Other Program Funding Sur	mmary (\$ in Milli	ons)							
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>				<u>Cost To</u>
Line Item	<u>FY 2012</u>	FY 2013	Base	000	Total	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 2018 Complete Total Cost
• 1105234BB: STUASL0	10.854	12.945	13.166		13.166	13.387	13.533	13.836	14.125 Continuing Continuing
Bomorko									

Remarks

D. Acquisition Strategy

Special Applications for Contingencies acquisition strategy is evolutionary and spiral-based for technology insertion and low volume procurement. As a non-standard DoD acquisition program, it allows for maximum flexibility to respond to quickly emerging, short lead time, contingency based requirements that have been approved through an Executive Integrated Product Team chaired by the Joint Staff at the national level.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E I	Project C	ost Analysis: PB 2	2014 Unite	d States	Special (Operatior	is Comma	ind				DATE	: April 20	13	
APPROPRIATION/BL 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-\	Nide					IRE Application	s for		CT Special Ap gencies	plications	for	
Product Developmen	nt (\$ in Mi	illions)		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 Complete	Total Cost	Target Value of Contract
Intelligence, Surveillance, and Reconnaissance Sensor and Networking Development	MIPR	Various:Various	61.022	-		17.058	Aug 2013	17.352	Aug 2014	-		17.352	Continuing	Continuing	
Near-Real-Time Contingencies	MIPR	Various:Various	14.473	4.915	Aug 2012	-		-		-		-	Continuing	Continuing	
Prior Year Funding	MIPR	Various:Various	119.551	-		-		-		-		-	0.000	119.551	
		Subtotal	195.046	4.915		17.058		17.352		0.000		17.352			
			All Prior Years	FY 2	2012	FY 2	2013		2014 ase		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
	_	Project Cost Totals	195.046	4.915		17.058		17.352		0.000		17.352			

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2014 U	nite	d St	ates	Spe	ecial	Ope	eratio	ons	Corr	nmar	nd											DAT	TE: A	١pril	201	3		
APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT 0400: Research, Development, Test & Evaluation, Defense-Wide PE 0304210BB: Special Applications for Contingencies 9999: Special Application Contingencies										ons f	for																	
		FY	2012	2		FY	2013			FY 2	2014			FY 2	2015			FY 2	2016	;		FY	2017	,	\square	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
Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development																												
ISR Technology Integration & Testing																												
ISR Prototype Demonstrations																												
ISR Combat Evaluation																												

xhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	I Operations Comma	nd		DATE: Ap	ril 2013				
APPROPRIATION/BUDGET ACTIVITY 1400: Research, Development, Test & Evaluation, Defense-Wide 3A 7: Operational Systems Development	Research, Development, Test & Evaluation, Defense-Wide PE 0304210BB: Special Application								
	Schedule Detail	S							
		St	art	E	Ind				
Events		Quarter	Year	Quarter	Year				
Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities D	ovolonmont	4	0040	4					
	evelopment		2012	4	2018				
ISR Technology Integration & Testing	evelopment	1	2012	4	2018 2018				
	evelopment	1 1 1	-						

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Ite	em Justificat	ion: PB 20	14 United S	tates Speci	al Operatio	ns Comman	d			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET A 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 08BB: Distrik	-	mon Ground	/Surface Sy	/stems		
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	12.666	1.303	7.114	5.195	-	5.195	5.286	5.340	5.449	5.564	Continuing	Continuing
S400A: Distributed Common Ground/Surface Systems	12.666	1.303	7.114	5.195	-	5.195	5.286	5.340	5.449	5.564	Continuing	Continuing
[#] FY 2013 Program is from the ^{##} The FY 2014 OCO Request			-	tted Februa	ary 2012							1

A. Mission Description and Budget Item Justification

This program element provides for the identification, development, and testing of the Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF). The mission tailored infrastructure interconnects the warfighter and sensor data to find and fix enemy combatants and/or terrorists. The DCGS-SOF program is a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services within SOF and between the Services, other national intelligence agencies, combatant commands and Multi-National partners in support of a Joint Task Force. It connects the SOF warfighter with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The primary functions of DCGS-SOF are to conduct processing, exploitation and dissemination (PED) for all SOF Intelligence Surveillance and Reconnaissance sensors, permit the collection of SOF data from collection sensors and intelligence databases, share across the DCGS Integration Backbone and provide timely, tailored, all-source, fused intelligence reporting to the SOF warfighter. This program will employ non-development commercial and government off-the-shelf hardware and software and will leverage from existing technology to the greatest degree possible.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1.303	7.114	5.767	-	5.767
Current President's Budget	1.303	7.114	5.195	-	5.195
Total Adjustments	0.000	0.000	-0.572	-	-0.572
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Other adjustment. 	-	-	-0.572	-	-0.572
Change Summary Explanation					
Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0305208BB: Distributed Common Grou	und/Surface Systems
3A 7: Operational Systems Development		
FY 2012: None.		
FY 2013: None.		
FY 2014: Decrease of \$0.572 million is due to realignment to hig	gher Command priorities.	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project J	ustification:	: PB 2014 L	Inited State	s Special C	perations C	Command				DATE: Api	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide		PE 030520	NOMENCL 18BB: Distri 11face Syste	buted Comr	non	PROJECT S400A: Dis Surface Sy	stributed Co	ommon Grou	nd/
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
S400A: Distributed Common Ground/Surface Systems	12.666	1.303	7.114	5.195	-	5.195	5.286	5.340	5.449	5.564	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 identification, development, and testing of the Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF). The mission tailored infrastructure interconnects the warfighter and sensor data to find and fix enemy combatants and/or terrorists. The DCGS-SOF program is a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services within SOF and between the Services, other national intelligence agencies, combatant commands and Multi-National partners in support of a Joint Task Force. It connects the SOF warfighter with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The primary functions of DCGS-SOF are to conduct processing, exploitation and dissemination (PED) for all SOF Intelligence Surveillance and Reconnaissance (ISR) sensors, permit the collection of SOF data from collection sensors and intelligence databases, share across the DCGS Integration Backbone and provide timely, tailored, all-source, fused intelligence reporting to the SOF warfighter. This program will employ non-development commercial and government off-the-shelf hardware and software and will leverage from existing technology to the greatest degree possible.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: DCGS	1.303	7.114	5.195
FY 2012 Accomplishments: Achieved Milestone C for DCGS Enterprise capability. Integrated emerging technologies and capabilities from DCGS family of systems partners and SOF C4 Partners into the DCGS-SOF baseline, commenced test and evaluation of these technologies into this baseline, conducted DCGS-SOF limited objective events and participated in OUSD(I)'s Enterprise Challenge demonstrations.			
FY 2013 Plans: Continue to integrate emerging technologies and capabilities for all source information fusion and initial integration of technology to enable disconnected operations into the DCGS-SOF baseline, commence test and evaluation of these technologies into this baseline, and conduct DCGS-SOF limited objective events and Enterprise Resolve demonstrations.			
FY 2014 Plans:			

PE 0305208BB: *Distributed Common Ground/Surface Systems* United States Special Operations Command

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	I States Spe	cial Operatio	ons Comman	d			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation	, Defense-W	lide	PE 03	EM NOMEN 05208BB: <i>D</i> d/Surface S	istributed Co	ommon		ECT :: Distributed (e Systems	Common Gro	ound/
B. Accomplishments/Planned Pro	grams (\$ in I	<u>Millions)</u>						Γ	FY 2012	FY 2013	FY 2014
Continue to integrate emerging tech to enable disconnected operations i baseline, and conduct DCGS-SOF I	nto the DCGS	-SOF baseli	ine, commer	ice test and	evaluation o	f these techr	ologies into	•••			
				Accon	nplishments	s/Planned P	rograms Su	btotals	1.303	7.114	5.19
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>									
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	<u> </u>
Line Item	FY 2012	<u>FY 2013</u>	Base	000	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	FY 201	7 FY 2018	<u>Complete</u>	Total Cos
• PROC1: DISTRIBUTED COMMON GROUND/SURFACE SYSTEM	18.418	12.767	14.906		14.906	11.317	9.712	9.94	1 10.148	Continuing	Continuin
Remarks											
 D. Acquisition Strategy DCGS-SOF will partner within D 	oD and with c	other governi	ment agenci	es to integra	te mature te	chnologies ir	nto the SOF i	nformatio	on enterprise a	and enable r	nore agile

access to and sharing of data and services to meet SOF-peculiar documented requirements. The technology will allow for seamless integration with DoD, interagency, and coalition ISR tactical PED systems.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E I	Project C	ost Analysis: PB	2014 Unite	d States	Special C	Operatior	ns Comma	and				DATE	: April 20	13	
APPROPRIATION/BL 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-V	Vide		PE 030	M NOME 5208BB: I/Surface	Distribute	IRE ed Commo	on		CT Distribute Systems		on Groun	d/
Product Developmen	nt (\$ in M	illions)		FY2	2012	FY 2	2013		2014 ase	FY 2 OC		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
DCGS Capabilities Modernization	Various	Various:Various	8.112	0.381	Jan 2012	2.940	Jan 2013	2.050	Jan 2014	-		2.050	Continuing	Continuing	
Development and Integration	C/FFP	SITEC:Various	0.000	-		0.685	Jan 2013	1.085	Dec 2013	-		1.085	Continuing	Continuing	
Independent Verification and Validation	MIPR	MITRE:Bedford, MA	-	0.274	Oct 2011	0.286	Oct 2012	0.280	Oct 2013	-		0.280	Continuing	Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	1.788	-		-		-		-		-	0.000	1.788	
		Subtotal	9.900	0.655		3.911		3.415		0.000		3.415			
Support (\$ in Million	s)			FY	2012	FY	2013		2014 ase	FY 2 OC		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
DCGS Support	C/FFP	SITEC:Various	0.000	-		0.914	Jan 2013	0.350	Dec 2013	-				Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	0.576	-		-		-		-		-	0.000	0.576	
		Subtotal	0.576	0.000		0.914		0.350		0.000		0.350			
Test and Evaluation	(\$ in Milli	ons)	Γ	FY 2	2012	FY 2	2013		2014 ase	FY 2 OC		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
DCGS Test and Evaluation	MIPR	SPAWAR:Charleston, SC	0.853	0.145	Oct 2011	0.235	Oct 2012	0.230	Oct 2013	-		0.230	Continuing	Continuing	
DCGS Independent Verification and Validation	MIPR	MITRE:Bedford, MA.	1.141	0.273	Oct 2011	0.288	Oct 2012	0.280	Oct 2013	-		0.280	Continuing	Continuing	
Interoperability Support	MIPR	JITC:Ft Huachuca, AZ	0.196	0.230	Jun 2012	0.286	Jan 2013	0.320	Jan 2014	-		0.320	Continuing	Continuing	
Interoperability Testing	C/FFP	SITEC :Various	-	-		1.480	Apr 2013	0.600	Dec 2013	-		0.600	Continuing	Continuing	
		Subtotal	2.190	0.648		2.289		1.430		0.000		1.430			

PE 0305208BB: *Distributed Common Ground/Surface Systems* United States Special Operations Command

37

Exhibit R-3, RDT&E Project Cost Analysis: PB :	2014 Unite	d States S	Special Opera	ations Con	nmand			DATE	: April 201	13	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Defense-V	Vide	PE	0305208E	MENCLATU BB: Distribute ce Systems		ion	PROJECT S400A: Distribute Surface Systems		on Groui	nd/
	All Prior Years	FY 20 ⁷	12	FY 2013	FY 2 Ba	2014 Ise	FY 20 OCC		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.666	1.303	7	.114	5.195		0.000	5.195			

xhibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	ed S	tate	s Spe	ecial	Ope	erati	ons	Com	nman	d											DATE:	: Ар	oril 2	013		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, L A 7: Operational Systems Development	Def	ense	e-Wi	de				PE (0305	M NC 5208E Surfa	3B: <i>L</i>	Distri	ibute		omm	on		S	400		Disti	ribute tems	d C	omn	non	Gro	und/
		_	201				2013	1		FY 2				Y 20				Y 20				Y 20				Y 20	
Distributed Common Ground/Surface Systems (DGCS) Integration and ETIs	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	1	1	2	3	4	1	2 3	3	4	1	2	3 4
Milestone C Acquisition Decision																											
DCGS-SOF Developmental Testing																											
SOF PED Enterprise Enhancements																											
DCGS v1.0 Operational Testing (SOF Data Layer Enterprise Portal)																											
DCGS v2.0 Operational Testing (SOF Data Layer, Data Engine, GEOINT, Fusion)																											
DCGS v3.0 Operational Testing (SIGINT FOC, All Source Intelligence Fusion Inc 1)																											
DCGS v4.0 Operational Testing (Enhanced Full Motion Video Arch, ASIF Inc 2)	I																										
DCGS Limited Objective Event & Enterprise Challenge - FY 2012 (Sensor Web and Trident Warrior)																											
DCGS Limited Objective Event & Enterprise Challenge - FY 2013																											
DCGS Limited Objective Event & Enterprise Challenge - FY 2014																											
DCGS Limited Objective Event & Enterprise Challenge - FY 2015																											
DCGS Limited Objective Event & Enterprise Challenge - FY 2016																											
DCGS Limited Objective Events& Enterprise Challenge - FY 2017																											

Exhibit R-4, RDT&E Schedule Profile: PB 2014 L	Jnite	ed S	State	es Si	bec	cial	Оре	eratio	ons	Cor	nm	and											DA	TE:	Apr	il 20	13		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, I BA 7: Operational Systems Development	Def	ens	e-W	(ide					PE	030	520	NOMI 08BB: <i>urface</i>	Dist	ribu	ted (_	mor	ו		S2	ROJ 00A	: Di	strik		d Co	mmo	on G	Groun	d/
		FY	20	12		I	FY 2	2013	5		F١	Y 2014	Ļ		FY 2	2015	5		FY	201	6		FY	20 1	7		FY	201	3
	1	2	2 3	3 4	L I	1	2	3	4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	2 3	4	1	2	2 3	4
DCGS Limited Objective Events & Enterprise Challenge - FY 2018																		1				_							_

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Ope	erations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0305208BB: Distributed Common	S400A: Distributed Common Ground/
BA 7: Operational Systems Development	Ground/Surface Systems	Surface Systems

Schedule Details

	Sta	art	En	d
Events	Quarter	Year	Quarter	Year
Distributed Common Ground/Surface Systems (DGCS) Integration and ETIs	1	2012	4	2018
Milestone C Acquisition Decision	1	2012	1	2012
DCGS-SOF Developmental Testing	1	2012	4	2018
SOF PED Enterprise Enhancements	1	2012	4	2018
DCGS v1.0 Operational Testing (SOF Data Layer Enterprise Portal)	2	2012	3	2012
DCGS v2.0 Operational Testing (SOF Data Layer, Data Engine, GEOINT, Fusion)	3	2012	4	2012
DCGS v3.0 Operational Testing (SIGINT FOC, All Source Intelligence Fusion Inc 1)	2	2013	3	2014
DCGS v4.0 Operational Testing (Enhanced Full Motion Video Arch, ASIF Inc 2)	1	2015	4	2015
DCGS Limited Objective Event & Enterprise Challenge - FY 2012 (Sensor Web and Trident Warrior)	1	2012	4	2012
DCGS Limited Objective Event & Enterprise Challenge - FY 2013	1	2013	4	2013
DCGS Limited Objective Event & Enterprise Challenge - FY 2014	1	2014	4	2014
DCGS Limited Objective Event & Enterprise Challenge - FY 2015	1	2015	4	2015
DCGS Limited Objective Event & Enterprise Challenge - FY 2016	1	2016	4	2016
DCGS Limited Objective Events& Enterprise Challenge - FY 2017	1	2017	4	2017
DCGS Limited Objective Events & Enterprise Challenge - FY 2018	1	2018	4	2018

THIS PAGE INTENTIONALLY LEFT BLANK

n Justificati	ion: PB 20 ⁻	14 United St	tates Speci	al Operatio	ns Comman	nd			DATE: Apr	il 2013	
FIVITY est & Evalua lopment	ition, Defen	se-Wide			-	-	UAV				
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
28.965	2.999	1.355	0.641	-	0.641	2.781	3.437	2.932	2.993	Continuing	Continuin
28.965	2.999	1.355	0.641	-	0.641	2.781	3.437	2.932	2.993	Continuing	Continuin
	rivity est & Evalua lopment All Prior Years 28.965	FIVITYest & Evaluation, DefenlopmentAll PriorYearsFY 201228.9652.999	IIVITY est & Evaluation, Defense-WidelopmentAll Prior YearsFY 2012FY 2013#28.9652.9991.355	IVITY est & Evaluation, Defense-WidelopmentAll Prior YearsFY 2012FY 2013#FY 2014 Base28.9652.9991.3550.641	All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ^{##} 28.965 2.999 1.355 0.641 -	All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ## FY 2014 Total 28.965 2.999 1.355 0.641 - 0.641	All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ^{##} FY 2014 Total FY 2015 28.965 2.999 1.355 0.641 - 0.641 2.781	All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ^{##} FY 2014 Total FY 2015 FY 2016 28.965 2.999 1.355 0.641 - 0.641 2.781 3.437	First & Evaluation, Defense-Wide lopment R-1 ITEM NOMENCLATURE All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ^{##} FY 2014 Total FY 2015 FY 2016 FY 2017 28.965 2.999 1.355 0.641 - 0.641 2.781 3.437 2.932	R-1 ITEM NOMENCLATURE PE 0305219BB: MQ-1 Predator A UAV All Prior Years FY 2012 FY 2013 [#] FY 2014 Base FY 2014 OCO ^{##} FY 2014 Total FY 2015 FY 2016 FY 2017 FY 2018 28.965 2.999 1.355 0.641 - 0.641 2.781 3.437 2.932 2.993	R-1 ITEM NOMENCLATURE PE 0305219BB: MQ-1 Predator A UAVAll Prior YearsFY 2012FY 2013#FY 2014 BaseFY 2014 OCO ##FY 2014 TotalFY 2015FY 2016FY 2017FY 2018Cost To Complete28.9652.9991.3550.641-0.6412.7813.4372.9322.993Continuing

[#] 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 program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits on the MQ-1 Unmanned Aerial System (UAS) as a component of the Medium Altitude Long Endurance Tactical Program. USSOCOM is designated as the DoD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations against terrorist networks. USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This program element addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Targeting (ISR&T).

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	2.499	1.355	2.058	-	2.058
Current President's Budget	2.999	1.355	0.641	-	0.641
Total Adjustments	0.500	0.000	-1.417	-	-1.417
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	0.500	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-	-	-1.417	-	-1.417

Change Summary Explanation

Funding:

FY2012: Increase of \$0.500 million for High Definition Full Motion Video upgrade..

FY2013: None.

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	
FY2014: Decrease of \$1.417 million to support higher Departme	nt priorities.	
Schedule: None.		
Technical: None.		
	UNCLASSIFIED	

Exhibit R-2A, RDT&E Project Jus	stification:	PB 2014 U	Jnited States	Special O	perations (Command				DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Develo	st & Evaluat	tion, Defen	se-Wide			NOMENCLA 19BB: <i>MQ-1</i>		UAV	PROJECT S400B: MO		or A UAV	
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
S400B: MQ-1 Predator A UAV	28.965	2.999	1.355	0.641	-	0.641	2.781	3.437	2.932	2.993	3 Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY## The FY 2014 OCO Request will			-	ed Februa	ıry 2012							
terrorist networks. USSOCOM re collection of information and requ												
ISR&T.			_									
ISR&T. 3. Accomplishments/Planned Pi	ograms (\$	in Million	<u>s)</u>						FY		FY 2013	FY 2014
ISR&T. 3. Accomplishments/Planned Pi	ograms (\$	in Million	s <u>)</u>						FY	2012 2.999	FY 2013 1.355	
•	integration			and ground	d control st	ation improv	ements. In	itiated High				FY 2014 0.641
ISR&T. B. Accomplishments/Planned Printile: MQ-1 Predator A UAV FY 2012 Accomplishments: Continued development, test, and Definition Full Motion Video upgrad FY 2013 Plans:	integration de.	of MQ-1 U	AV payload a	-		·		itiated High				
ISR&T. B. Accomplishments/Planned Pr Title: MQ-1 Predator A UAV FY 2012 Accomplishments: Continued development, test, and	integration de.	of MQ-1 U f MQ-1 UA	AV payload a	nd ground	control sta	tion improve	ments.	-				
ISR&T. B. Accomplishments/Planned Pr Title: MQ-1 Predator A UAV FY 2012 Accomplishments: Continued development, test, and Definition Full Motion Video upgrad FY 2013 Plans: Continue development, test, and in FY 2014 Plans: Continues development, test, and	integration de.	of MQ-1 U f MQ-1 UA	AV payload a	nd ground and ground	control sta d control st	tion improve	ments. ements for	SOF-unique	9			
ISR&T. B. Accomplishments/Planned Pl Title: MQ-1 Predator A UAV FY 2012 Accomplishments: Continued development, test, and Definition Full Motion Video upgrad FY 2013 Plans: Continue development, test, and in FY 2014 Plans: Continues development, test, and payloads.	integration of the second s	of MQ-1 U f MQ-1 UA of MQ-1 U	AV payload a	nd ground and ground	control sta d control st	tion improve ation improv	ments. ements for	SOF-unique	9	2.999	1.355	0.641
ISR&T. 3. Accomplishments/Planned Pr Title: MQ-1 Predator A UAV FY 2012 Accomplishments: Continued development, test, and Definition Full Motion Video upgrad FY 2013 Plans: Continue development, test, and in FY 2014 Plans: Continues development, test, and bayloads. C. Other Program Funding Summers	integration of de. integration of integration of nary (\$ in N	of MQ-1 U f MQ-1 UA of MQ-1 U Millions)	AV payload a V payload a AV payload a FY 2	nd ground and ground	control sta d control st Accompli 2014 F	tion improve ation improv shments/Pla Y 2014	ments. ements for anned Pro g	SOF-unique	e totals	2.999 2.999	1.355 1.355 <u>Cost To</u>	0.641
ISR&T. B. Accomplishments/Planned Pr <i>Title:</i> MQ-1 Predator A UAV <i>FY 2012 Accomplishments:</i> Continued development, test, and Definition Full Motion Video upgrad <i>FY 2013 Plans:</i> Continue development, test, and in <i>FY 2014 Plans:</i> Continues development, test, and	integration of de. Integration of integration of nary (\$ in N FY 201	of MQ-1 U f MQ-1 UA of MQ-1 U. <u>Millions)</u> 12 FY 2	AV payload a V payload a AV payload a <u>FY 2</u> 013 B	nd ground and ground	control sta d control st Accompli <u>2014</u> <u>F</u> <u>OCO</u>	tion improve ation improv shments/Pla Y 2014	ments. ements for anned Pro g	SOF-unique	9	2.999 2.999 FY 2018	1.355 1.355	0.641 0.641 Total Cos

45

xhibit R-2A, RDT&E Project Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: MQ-1 Predator A UAV
• Acquisition Strategy MQ-1 Predator A UAV is an evolutionary acquisition program that pr ISR&T acquisition capabilities of SOF. • Performance Metrics N/A	rovides improvements to SOF MQ-1 aircraft, payload	s, and ground control stations to increase the

Exhibit R-3, RDT&E	•			ed States	Special C	·					1		: April 20	13	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Defense-	Wide			i M NOME 5219BB: /	-	RE edator A L	IAV	PROJE S400B:	CT MQ-1 Pre	edator A L	JAV	
Product Developme	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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 o Contrac
MQ-1 Predator Payloads and Ground Control Stations	C/Various	General Atomics Aeronautical Services:San Diego, CA	22.268	2.999	Sep 2012	1.355	Mar 2013	0.481	Mar 2014	-		0.481	Continuing	Continuing	
		Subtotal	22.268	2.999		1.355		0.481		0.000		0.481			
Test and Evaluation	(\$ in Milli	ons)	ſ	FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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 Contrac
MQ-1 Predator Payloads and Ground Control Stations	C/TBD	General Atomics Aeronautical Services:San Diego, CA	6.049	-		-		0.160	Mar 2014	-		0.160	Continuing	Continuing	
		Subtotal	6.049	0.000		0.000		0.160		0.000		0.160			
Management Servic	es (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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 Contrac
MQ-1 Predator Payloads and Ground Control Stations	C/Various	Various:Dayton, OH	0.648	-		-		-		-		-	0.000	0.648	
		Subtotal	0.648	0.000		0.000		0.000		0.000		0.000	0.000	0.648	
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contrac
		Project Cost Totals	28.965	2.999		1.355		0.641		0.000		0.641			

47

xhibit R-4, RDT&E Schedule Profile: PB 201	4 Uni	ted S	tates	s Sp	ecial	Ope	eratio	ns C	Com	nmar	nd											DAT	TE: A	pril	201	3		
APPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluatio 3A 7: Operational Systems Development	on, De	fense	e-Wic	le							DME BB:			-		ΑU,	4V			OJE 00B:		Q-1 F	Preda	ator .	A U.	AV		
		FY	201	2		FY 2	2013			FY 2	2014			FY 2	2015			FY	2016	5		FY	2017	,		FY 2	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
MQ-1 Predator Payloads and Ground Control Stations																											,	
Development/Integration																												
Test & Evaluation/User Assessment																												

xhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	I Operations Commar	nd			DATE: Apr	il 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	-	MENCLATURE B: MQ-1 Predator		PROJEC1 S400B: <i>M</i>	Q-1 Predato	r A UAV
	Schedule Details	S				
	[St	art		E	nd
Events by Sub Project		St Quarter	art Year		E Quarter	nd Year
Events by Sub Project MQ-1 Predator Payloads and Ground Control Stations				(

THIS PAGE INTENTIONALLY LEFT BLANK

COST (\$ IN MINIONS)YearsFY 2012FY 2013**BaseOCO ***TotalFY 2015FY 2016FY 2017FY 2018CompleteCostTotal Program Element-0.0005.0000.000-0.000 <th>0400: Research, Development, Test & Exercise BA 7: Operational Systems Development COST (\$ in Millions) All Pry Total Program Element S854: MQ-8 UAV * FY 2013 Program is from the FY 2013 ## The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill</th> <th>or s FY 2012 - 0.000 - 0.000</th> <th>FY 2013[#]</th> <th>-</th> <th>PE 030523 FY 2014</th> <th>1BB: <i>MQ-8</i></th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th>	0400: Research, Development, Test & Exercise BA 7: Operational Systems Development COST (\$ in Millions) All Pry Total Program Element S854: MQ-8 UAV * FY 2013 Program is from the FY 2013 ## The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill	or s FY 2012 - 0.000 - 0.000	FY 2013 [#]	-	PE 030523 FY 2014	1BB: <i>MQ-8</i>					1	
COST (\$ in Millions) Years FY 2012 FY 2013 Base OCO #F Total FY 2015 FY 2016 FY 2017 FY 2018 Complete Cost Total Program Element - 0.000 5.000 0.000 - 0.000	Year Total Program Element S854: MQ-8 UAV # FY 2013 Program is from the FY 2013 ## The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill	FY 2012 - 0.000 - 0.000		-		EV 2014						
S854: MQ-8 UAV - 0.000 5.000 0.000 - 0.000 0.000 0.000 0.000 Continuing	S854: <i>MQ-8 UAV</i> [#] FY 2013 Program is from the FY 2013 ^{##} The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mil	- 0.000	F 000	Buoo	OCO ##		FY 2015	FY 2016	FY 2017	FY 2018		Total Cost
 * 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 Details provided under separate cover. B. Program Change Summary (\$ in Millions) FY 2012 FY 2013 FY 2014 Base FY 2014 OCO FY 2014 Total Previous President's Budget 0.000 0.00	 [#] FY 2013 Program is from the FY 2013 ^{##} The FY 2014 OCO Request will be su <u>A. Mission Description and Budget Ite</u> Details provided under separate cover. <u>B. Program Change Summary (\$ in Mil</u> 		5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuin
## The FY 2014 OCO Request will be submitted at a later date A. Mission Description and Budget Item Justification Details provided under separate cover. B. Program Change Summary (\$ in Millions) FY 2012 FY 2013 FY 2014 Base FY 2014 OCO FY 2014 Total Previous President's Budget 0.000 0.000 0.000 - 0.000 Current President's Budget 0.000 5.000 0.000 - 0.000 Total Adjustments 0.000 5.000 0.000 - 0.000 · Congressional General Reductions - - - - - - · Congressional IDirected Reductions - </td <td>^{##} The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill</td> <td></td> <td>5.000</td> <td>0.000</td> <td>-</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>Continuing</td> <td>Continuing</td>	^{##} The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill		5.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
## The FY 2014 OCO Request will be submitted at a later date A. Mission Description and Budget Item Justification Details provided under separate cover. B. Program Change Summary (\$ in Millions) FY 2012 FY 2013 FY 2014 Base FY 2014 OCO FY 2014 Total Previous President's Budget 0.000 0.000 0.000 - 0.000 Current President's Budget 0.000 5.000 0.000 - 0.000 Total Adjustments 0.000 5.000 0.000 - 0.000 · Congressional General Reductions - - - - - - · Congressional IDirected Reductions - </td <td>^{##} The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill</td> <td>President's Bu</td> <td>daet, submi</td> <td>tted Februa</td> <td>ry 2012</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u></u></td>	^{##} The FY 2014 OCO Request will be su A. Mission Description and Budget Ite Details provided under separate cover. B. Program Change Summary (\$ in Mill	President's Bu	daet, submi	tted Februa	ry 2012							<u></u>
Details provided under separate cover.B. Program Change Summary (\$ in Millions)FY 2012FY 2013FY 2014 BaseFY 2014 OCOFY 2014 TotalPrevious President's Budget0.0000.0000.000-0.000Current President's Budget0.0005.0000.000-0.000Total Adjustments0.0005.0000.000-0.000• Congressional General Reductions0.000• Congressional Directed Reductions• Congressional Rescissions• Congressional Adds• Congressional Directed Transfers• Reprogrammings-5.000• SBIR/STTR Transfer• Change Summary Explanation	Details provided under separate cover. <u>B. Program Change Summary (\$ in Mil</u>		-		5							
Details provided under separate cover.B. Program Change Summary (\$ in Millions)FY 2012FY 2013FY 2014 BaseFY 2014 OCOFY 2014 TotalPrevious President's Budget0.0000.0000.000-0.000Current President's Budget0.0005.0000.000-0.000Total Adjustments0.0005.0000.000-0.000Total Adjustments0.0005.0000.000-0.000• Congressional General Reductions• Congressional Directed Reductions• Congressional Rescissions• Congressional Adds• Congressional Directed Transfers• Reprogrammings-5.000• SBIR/STTR Transfer• Change Summary Explanation	Details provided under separate cover. B. Program Change Summary (\$ in Mil	n luctification										
B. Program Change Summary (\$ in Millions)FY 2012FY 2013FY 2014 BaseFY 2014 OCOFY 2014 TotalPrevious President's Budget0.0000.0000.0000.0000.0000.000Current President's Budget0.0005.0000.0000.0000.000Total Adjustments0.0005.0000.0000.0000.000• Congressional General Reductions0.0000.0000.000• Congressional Rescissions0.000• Congressional Rescissions• Congressional Adds• Congressional Directed Transfers• Congressional Directed Transfers• Congressional Directed Transfers• SBIR/STTR Transfer• SBIR/STTR Transfer• Change Summary Explanation	B. Program Change Summary (\$ in Mil	n Justinication	<u>l</u>									
Previous President's Budget0.0000.0000.000-0.000Current President's Budget0.0005.0000.000-0.000Total Adjustments0.0005.0000.000-0.000• Congressional General Reductions0.000• Congressional Directed Reductions• Congressional Rescissions• Congressional Rescissions• Congressional Directed Transfers• Congressional Directed Transfers• Reprogrammings-5.000• SBIR/STTR Transfer• Change Summary Explanation												
Current President's Budget0.0005.0000.000-0.000Total Adjustments0.0005.0000.000-0.000• Congressional General Reductions• Congressional Directed Reductions• Congressional Rescissions• Congressional Adds• Congressional Directed Transfers• Congressional Directed Transfers• Reprogrammings-5.000• SBIR/STTR TransferChange Summary Explanation	Draviava Drasidant'a Rudgat	<u>ions)</u>		<u>FY 2012</u>	<u>FY 201</u>	<u>3</u> <u>F</u>	Y 2014 Bas	se l	FY 2014 OC	<u>:0</u>	FY 2014 To	<u>otal</u>
Total Adjustments0.0005.0000.000-0.000• Congressional General Reductions	Flevious Flesidellis Dudgel			0.000	0.00	0	0.00	00		-	0.0	000
• Congressional General Reductions - • Congressional Directed Reductions - • Congressional Rescissions - • Congressional Adds - • Congressional Directed Transfers - • Reprogrammings - • SBIR/STTR Transfer - • Change Summary Explanation -	Current President's Budget			0.000	5.00	0	0.00	00		-	0.0	000
 Congressional Directed Reductions Congressional Rescissions Congressional Adds Congressional Directed Transfers Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer 	Total Adjustments			0.000	5.00	0	0.00	00		-	0.0	000
Congressional Rescissions Congressional Adds Congressional Directed Transfers Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation	 Congressional General 	Reductions		-	-							
Congressional Adds Congressional Directed Transfers Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer Change Summary Explanation	 Congressional Directed 	Reductions		-	-							
Congressional Adds Congressional Directed Transfers Congressional Direct	 Congressional Rescissi 	ons		-	-							
Congressional Directed Transfers Reprogrammings - 5.000 SBIR/STTR Transfer Change Summary Explanation	•			-	-							
Reprogrammings - 5.000 SBIR/STTR Transfer Change Summary Explanation	0	Transfers		-	-							
• SBIR/STTR Transfer - - Change Summary Explanation	•			-	5.00	0						
				-	-							
FY 2013 dollar amount is FY 2013 OCO request.												
	FY 2013 dollar amount is FY 201	OCO request.										

THIS PAGE INTENTIONALLY LEFT BLANK

APPROPRIATION/BUDGET AC		on: PB 20	14 United St		al Operatior					DATE: Ap	ril 2013	
0400: Research, Development, 7 3A 7: Operational Systems Deve	est & Evalua	tion, Defen	se-Wide		R-1 ITEM I PE 110521			Aerial Veh	icle			
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	5.167	2.434	3.002	1.314	-	1.314	3.062	4.203	3.989	4.072	Continuing	Continui
S851: MQ-9 Unmanned Aerial Vehicle	5.167	2.434	3.002	1.314	-	1.314	3.062	4.203	3.989	4.072	Continuing	Continui
A. Mission Description and Bur This program element identifies as a component of the Medium executing Overseas Contingen value targets. These targets ca present themselves. This prog	s, develops, ir Altitude Long cy Operations an often only	ntegrates, a g Endurand s against te be identifie	and tests Sp e Tactical p errorist netw d with patie	orogram. U orks. USS nt collection	SSOCOM is OCOM requin of information	s designated lires the cap tion and rec	d as the Do pability to fir quire rapid, o	D lead for p nd, fix, finish decisive act	lanning, syi n, exploit, ar tion during t	nchronizing nd analyze he short pe	, and as dir time-sensiti	ected, ve high-
3. Program Change Summary				FY 2012	<u>FY 201</u>		Y 2014 Bas		FY 2014 O	. ,	<u>FY 2014 To</u>	otal
Previous President's Bud	•	+		2.499	3.00	2	2.05	59		-	2.0	059
Current President's Budg	•			2.434	3.00		1.3			-		314
Total Adjustments				-0.065	0.00		-0.74	15		-	-0.	745
	General Redu	uctions		-	-							
Congressional (-	-							
 Congressional (Congressional I 	Directed Redu	uctions										
Congressional (Congressional I Congressional I		uctions		-	-							
Congressional I	Rescissions	uctions		- -	-							
Congressional I Congressional I	Rescissions Adds			- - -	-							
 Congressional I Congressional I Congressional I 	Rescissions Adds Directed Tran			- - -	- - -							
 Congressional I Congressional I Congressional I Congressional I 	Rescissions Adds Directed Tran gs			- - - -0.065	- - - -							
 Congressional I Congressional I Congressional I Congressional I Congressional I Reprogramming 	Rescissions Adds Directed Tran gs ansfer			- - - -0.065 -	-		-0.74	15		_	-0.7	745
 Congressional I Congressional I Congressional I Congressional I Congressional I Reprogramming SBIR/STTR Trademing 	Rescissions Adds Directed Tran gs ansfer ents			- - - -0.065 -	-		-0.74	15		_	-0.1	745
 Congressional I Congressional I Congressional I Congressional I Congressional I Reprogramming SBIR/STTR Tra Other Adjustme 	Rescissions Adds Directed Tran gs ansfer ents			- - -0.065 -	-		-0.74	15		-	-0.1	745
Congressional I Congressional I Congressional I Congressional I Congressional I Reprogramming SBIR/STTR Tra Other Adjustme Change Summary Expla	Rescissions Adds Directed Tran gs ansfer ents anation	sfers	o Small Bus	-	- - - - - - - - - - - - - - - - - - -	arch (-\$0.06		15		-	-0.	745
Congressional I Congressional I Congressional I Congressional I Reprogramming SBIR/STTR Tra Other Adjustme Change Summary Expla Funding:	Rescissions Adds Directed Tran gs ansfer ents anation	sfers	o Small Bus	-	vation Rese	arch (-\$0.06		15		_	-0.	745
Congressional I Congressional I Congressional I Congressional I Reprogramming SBIR/STTR Tra Other Adjustme <u>Change Summary Expla</u> Funding: FY2012: Decrease is due	Rescissions Adds Directed Tran gs ansfer ents anation e to a transfe	sfers r of funds t	o Small Bus	- siness Innov	vation Rese			15		-	-0.	745

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Sp	pecial 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 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>	
FY2014: Decrease of \$0.745 million to support higher Department	priorities.	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project J		PB 2014 l	Jnited State	s Special C						DATE: Ap	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defer	ase-Wide			NOMENCL 19BB: MQ-9	-	ed Aerial	PROJEC S851: <i>M</i> C	T)-9 Unmann	ed Aerial V	ehicle
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
S851: MQ-9 Unmanned Aerial Vehicle	5.167	2.434	3.002	1.314	-	1.314	3.062	2 4.203	3.989	9 4.072	2 Continuing	g Continuing
Quantity of RDT&E Articles												
A. Mission Description and Bug This project identifies, develops payloads, and control systems. finish time-sensitive high-value short periods in which they pres	, integrates, As the sup targets. The	and tests S ported com ese targets	Special Ope batant comr can often o	mand in Ov nly be iden	erseas Cor tified with p	ntingency Op atient collec	perations (tion of info	OCO), USS(rmation and	DCOM requ	uires the cap	pability to fir	nd, fix, and
B. Accomplishments/Planned I	Programs (\$	in Million	<u>s)</u>						F	Y 2012	FY 2013	FY 2014
Title: MQ-9 UAV										2.434	3.002	1.314
FY 2012 Accomplishments: Developed, tested, and integrate	d MQ-9 UA\	/ payload a	nd ground c	control stati	on improve	ments.						
FY 2013 Plans: Develop, test, and integrate MQ-	9 UAV paylo	ad and gro	und control	station imp	provements	for SOF uni	que payloa	ads.				
FY 2014 Plans: Develops, tests, and integrates M	1Q-9 UAV pa	ayload and	ground con	trol station	improveme	nts for SOF	unique pa	yloads.				
					Accompli	shments/Pl	anned Pro	ograms Sub	ototals	2.434	3.002	1.314
C. Other Program Funding Sun	<u>nmary (\$ in</u>	<u>Millions)</u>										
						<u>Y 2014</u>	V 204 F		EV 2047	EV 2040	Cost To	
Line Item • PROC1: MQ-9 Unmanned Aerr Vehicle	FY 20 al 8.7			<u>3ase</u> .893	<u>000</u>	<u>Total</u> <u>F</u> 1.893	7 <u>Y 2015</u> 6.011	FY 2016 6.425	<u>FY 2017</u> 5.404		Complete Continuing	
<u>Remarks</u>												
PF 1105219BB: MQ-9 Unmanned					CLASSIF							

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	perations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1105219BB: MQ-9 Unmanned Aerial	S851: MQ-	-9 Unmanned Aerial Vehicle
BA 7: Operational Systems Development	Vehicle		

D. Acquisition Strategy

MQ-9 Unmanned Aerial Vehicle is an evolutionary acquisition program that provides improvements to SOF MQ-9 aircraft, payloads, and ground control stations to increase the ISR&T acquisition capabilities of SOF.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	s Special (Operation	is Comma	ind				DATE	: April 20	13	
APPROPRIATION/B 0400: <i>Research, Dev</i> BA 7: <i>Operational Sy</i>	elopment,	Test & Evaluation,	Defense-	Wide			6 M NOME 5219BB: /	-		Aerial	PROJE S851: <i>N</i>	CT AQ-9 Unm	anned A	erial Vehio	cle
Test and Evaluation	(\$ in Milli	ons)	ſ	FY	2012	FY 2	2013		2014 Ise		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 Complete	Total Cost	Target Value of Contract
MQ-9 UAV	SS/ Various	General Atomics Aeronautical Services:San Diego, CA	5.167	2.434	Mar 2012	3.002	Mar 2013	1.314	Mar 2014	-		1.314	Continuing	Continuing	
		Subtotal	5.167	2.434		3.002		1.314		0.000		1.314			
			All Prior Years	FY	2012	FY 2	2013		2014 Ise		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	5.167	2.434		3.002		1.314		0.000		1.314			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB :	2014 Un	ited S	States	s Sp	ecia	l Ope	eratio	ons (Comr	man	d										DA	TE:	April	201	13		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evalu BA 7: Operational Systems Development	ation, De	efens	e-Wid	de					1052	-	MEN(3B: <i>M</i> (-		ed A	erial	1		ΟJE 51: Λ		9 Ui	nma	nneo	d Ae	erial	Veh	cle
	Г					F V (0040									1								- <u>1</u>			
		FΥ	201	2		FY 4	2013		F	FY 2	014		FΥ	201	5		FY	2016	i		FY	201	7		FY	201	8
		F1 1 2		5	1	2	2013	4	1	<u> </u>	014 3 4	1	FY		5 4	1	FY 2		4	1	FY 2		7	1	FY		8
MQ-9 Unmanned Aerial Vehicle				5	1				1			1			5 4	1			4	1			7	1			8

xhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		DATE: Apr	il 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1105219BB: <i>MQ-9 Unmanned</i> <i>Vehicle</i>	-	PROJECT S851: MQ-9 Unmanne	ed Aerial Vehicle
	Schedule Details	+		nd
Events by Sub Project	Star			nd Year
Events by Sub Project MQ-9 Unmanned Aerial Vehicle		t Year	E Quarter	nd Year

THIS PAGE INTENTIONALLY LEFT BLANK

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command									DATE: April 2013			
APPROPRIATION/BUDGET A 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 32BB: RQ-1						
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	-	1.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.500
S853: RQ-11 UAV	-	1.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.500
 [#] FY 2013 Program is from the ^{##} The FY 2014 OCO Request <u>A. Mission Description and B</u> A new program element was 	t will be submi adget Item J i	tted at a late	er date			mall I Inmar	aned Aircrat	ft Systems (51125)			
This program element identifi SUAS capabilities for standal the DoD lead for planning, sy	es, investigate one employme	es, develops ent from wo	s, integrates rld-wide gro	, and tests ound locatio	Special Ope ns, from ma	erations For anned/unma	ces (SOF) Inned aircra	payload req ft, or from n	uirements a naritime cra	ft. USSOC	OM is desig	nated as

to find, fix, finish, exploit, and analyze time-sensitive high-value-targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1.500	0.000	0.000	-	0.000
Current President's Budget	1.500	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Change Summary Explanation					

Funding:

FY 2012: None.

FY 2013: None.

hibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013		
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide A7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1105232BB: RQ-11 UAV			
FY2014: None.				
Schedule None.				
Technical None.				

BA 7: Operational Systems Develo	t & Evalua oment	-	se-Wide	I					PROJEC S853: <i>R</i> Q					
S853: <i>RQ-11 UAV</i> Quantity of RDT&E Articles														
Quantity of RDT&E Articles	i	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		
•	-	1.500	0.000	0.000) –	0.000	0.000	0.000	0.000	0.000	0.000	1.50		
[#] FY 2013 Program is from the FY														
*** The FY 2014 OCO Request will A. Mission Description and Budge This project addresses spiral development testing; and integra increased payload capacity and of	et Item Ju elopment e es system apabilities	efforts valid payloads a for Small U	ated in unm and upgrade Jnmanned /	es for incre Aircraft Sys	ased aircra tems to me	ft endurance et Special C	e, reduced a Operations F	ircraft signa orces missi	ature, incre ion require	ased teleme ments. The	etry range, a Lethal Mini	and ature		
Aerial Munitions System (LMAMS deliver incapacitating effects usin 3. Accomplishments/Planned Pr Title: Lethal Miniature Aerial Munit	g kinetic m ograms (\$	eans agair in Million	nst fixed and <u>s)</u>								FY 2013 0.000	FY 2014 0.00		
FY 2012 Accomplishments: Initiated payload development, tes	and evalu	ation of LM	IAMS.											
					Accompli	shments/Pl	lanned Prog	grams Sub	totals	1.500	0.000	0.00		
C. Other Program Funding Sumr	nary (\$ in ∣	<u>Millions)</u>	EV	2014 FY	<u>′2014</u> F	Y 2014					Cost To			
Line Item	<u>FY 20</u>	<u>12 FY 2</u>		<u>2014</u> <u>- 1</u> Base	<u>2014</u> <u>F</u> OCO		Y 2015	Y 2016	FY 2017	FY 2018	<u>Complete</u>	Total Cos		
• PROC1: RQ-11 Unmanned Aeria Vehicle Remarks				0.850		0.850	1.727	4.795	0.890		Continuing			
D. Acquisition Strategy Investigate and demonstrate pos	sible small	LMAMS sy	vstems.											
<u>E. Performance Metrics</u> N/A														

Exhibit R-3, RDT&E I	hibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command											DATE	DATE: April 2013			
0400: Research, Deve	PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development								R-1 ITEM NOMENCLATURE PE 1105232BB: RQ-11 UAV							
Product Development (\$ in Millions)					2012	FY 2	2013		2014 Ise		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 Tota t Complete Cos		Target Value of Contract	
Lethal Miniature Aerial Munitions System	C/IDIQ	TBD:TBD	0.000	1.500	Mar 2012	0.000		0.000		-		0.000	0.000	1.500		
		Subtotal	0.000	1.500		0.000		0.000		0.000		0.000	0.000	1.500		
			All Prior Years	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC	2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
		Project Cost Totals	0.000	1.500		0.000	000 0.000		0.000		0.000	0.000	1.500			

Remarks

Exhibit R-2, RDT&E Budget Iter	d			DATE: Apr	il 2013							
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide			NOMENCLA 33BB: RQ-7						
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	-	2.900	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.900
S852: RQ-7 UAV	-	2.900	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.900

[#] 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 program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - Unique Mission Kits for Groups 1 – 3 Unmanned Aircraft Systems (UAS). These mission kits enable SOF to meet continually evolving mission requirements. As the supported combatant command, USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations. USSOCOM requires the capability to find, fix, and finish time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This program element addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target Acquisition (ISR&T).

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	2.900	0.000	0.000	-	0.000
Current President's Budget	2.900	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Change Summary Explanation					
Funding:					
FY2012: None.					
FY2013: None.					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 03A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1105233BB: <i>RQ-7 UAV</i>	
FY2014: None.		
Schedule: None.		
Technical: None.		
1105233BB [.] <i>R</i> O-7 <i>I IAV</i>	UNCLASSIFIED	

Exhibit R-2A, RDT&E Project J		PB 2014 L	Inited State	s Special C	·			,	DATE: April 2013					
APPROPRIATION/BUDGET AC 0400: Research, Development, 3A 7: Operational Systems Deve	Test & Evaluat	ion, Defen	se-Wide			NOMENCL 33BB: RQ-3			PROJE S852: <i>F</i>	OJECT 52: RQ-7 UAV				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 201	7 FY 2018	Cost To Complete	Total Cost		
852: RQ-7 UAV	-	2.900	0.000	0.000	-	0.000	0.000	0.000	0.0	00.00	0.000	2.90		
Quantity of RDT&E Articles														
A. Mission Description and But This project identifies, develop mission kits enable SOF to me for planning, synchronizing, an value targets. These targets c	s, integrates a et continually d as directed,	nd tests S evolving m executing	pecial Open hission requ Overseas	irements. Contingenc	As the sup y Operatio	ported comb	oatant comm OM requires	hand, USSC s the capab	COM ha	s been desig d, fix, and fini	nated as the sh time-sen	DoD lead sitive high-		
present themselves. This proje B. Accomplishments/Planned		•	-	ISR&T.						FY 2012	FY 2013	FY 2014		
Title: Unmanned Aircraft System	• ·		2/							2.900	0.000	0.00		
FY 2012 Accomplishments: Completed development, testing		on of new p	bayload tec	hnology.										
					Accompl	ishments/P	lanned Pro	grams Sub	totals	2.900	0.000	0.00		
C. Other Program Funding Sur Line Item • PROC1: RQ-7 UAV Remarks	mmary (\$ in M FY 201 0.45	2 FY 2	01 <u>3</u> E	2014 FY 3ase 0.000	<u>2014</u> <u>F</u> <u>OCO</u>	T <u>Y 2014</u> <u>Total</u> 0.000	Y 2015 0.000	FY 2016 0.000	<u>FY 2017</u> 0.000		Cost To Complete 0.000	<u>Total Cos</u> 0.45		
 D. Acquisition Strategy SOF-unique mission kits will prunique payloads. Proprietary of E. Performance Metrics N/A. 									orocess	vill be conduc	ted for the S	SOF-		

Exhibit R-3, RDT&E F	ibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command											DATE	DATE: April 2013			
0400: Research, Deve	PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development								R-1 ITEM NOMENCLATUREPPE 1105233BB: RQ-7 UAVS							
est and Evaluation (\$ in Millions)					2012	FY 2	013		2014 se	FY 2 O		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 Tot Complete Cos		Target Value of Contract	
SOF- Unique Missions Kits	C/Various	NAVAIR:Patuxent River, Maryland	-	2.900	Dec 2011	-		-		-		-	Continuing	Continuing		
		Subtotal	0.000	2.900		0.000		0.000		0.000		0.000				
			All Prior Years	FY	2012	FY 2	013	FY 2 Ba		FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
		Project Cost Totals	0.000	2.900		0.000		0.000		0.000		0.000				

Remarks

Exhibit R-2, RDT&E Budget Iten	hibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command											
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel		R-1 ITEM PE 116027										
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	140.463	10.634	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S050: Small Business Innovative Research	140.463	10.634	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	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

A. Mission Description and Budget Item Justification

This program element consists of a highly competitive three-phase award system that provides qualified small business concerns with the opportunity to propose high quality innovative ideas that meet specific research and development needs of USSOCOM. Small Business Innovative Research (SBIR) is a result of the Small Business Development Act of 1992. It was enacted by Congress in Public Law 97-219, reenacted by Public Law 99-443, and reauthorized by the SBIR Program Reauthorization Act of 2001. Starting in FY 1994, the SBIR program was refocused toward dual use and defense reinvestment efforts. Phase I projects evaluate the scientific technical merit and feasibility of an idea. Awards are up to \$0.100 million with a maximum six-month period of performance. Phase II projects expand the results of, and further pursue, the developments of Phase I. Awards are up to \$0.750 million with a maximum two-year period of performance. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. DOD publishes government agency proposal projects twice per year for a consolidated DoD Request for Proposal. USSOCOM then awards its proposed SBIR projects.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	<u>FY 2014 OCO</u>	FY 2014 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	10.634	0.000	0.000	-	0.000
Total Adjustments	10.634	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	10.634	-			

Change Summary Explanation

Funding:

В

FY 2012: Increase due to reprogramming from various program elements for the congressionally mandated Small Business Innovative Research Program.

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 000: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160279BB: <i>Small Business Innovative</i>	Research
Schedule: None.		
Technical: None		

· · · · · · · · · · · · · · · · · · ·	stification:	FD 2014 C		s opecial C	1				1		oril 2013	
		tion Dofon	aa Wida			NOMENCLA 9BB: Small		nnovativa	PROJECT		o Innovativa	Desserab
0400: Research, Development, Te BA 7: Operational Systems Develo		allon, Delen	se-wide		Research	9DD. SIIIdii	Dusiness i	3050. Sm	050: Small Business Innovative Research			
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	
S050: Small Business Innovative Research	140.463	10.634	0.000	0.000	-	0.000	0.000	0.000	0.000	0.00	0 Continuing	g Continuin
Quantity of RDT&E Articles												
 [#] FY 2013 Program is from the F[*] ^{##} The FY 2014 OCO Request wi A. Mission Description and Bud This project consists of a highly of the project consists consists of the project consists consists of the project consists consis	ill be submit get Item Ju competitive	tted at a late ustification three-phas	er date e award sys	stem that p	rovides qua							
innovative ideas that meet speci Business Development Act of 19 Reauthorization Act of 2001												
	arting in FY feasibility c , the develo of Phase II	1994, the s of an idea. J opments of and require	SBIR progra Awards are Phase I. Av es the use o	am was refo up to \$0.10 wards are u f private or	ocused towa 00 million wi up to \$0.750 non-SBIR f	ard dual use th a maximu) million with ederal fundi	and defens um six-mon a maximul ng. DOD p	se reinvestr th period of m two-year	nent efforts performan period of p	. Phase I ce. Phase erformanc	projects eva Il projects e e. Phase III	luate expand is for
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD	arting in FY feasibility c e, the develo of Phase II Request fo	1994, the S of an idea. J opments of and require r Proposal.	SBIR progra Awards are Phase I. Aves the use of USSOCOM	am was refo up to \$0.10 wards are u f private or	ocused towa 00 million wi up to \$0.750 non-SBIR f	ard dual use th a maximu) million with ederal fundi	and defens um six-mon a maximul ng. DOD p	se reinvestr th period of m two-year	nent efforts performan period of p overnment	. Phase I ce. Phase erformanc	projects eva Il projects e e. Phase III	luate expand is for
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$	1994, the s of an idea. A opments of and require r Proposal.	SBIR progra Awards are Phase I. Aves the use of USSOCOM	am was refo up to \$0.10 wards are u f private or	ocused towa 00 million wi up to \$0.750 non-SBIR f	ard dual use th a maximu) million with ederal fundi	and defens um six-mon a maximul ng. DOD p	se reinvestr th period of m two-year	nent efforts performan period of p overnment	. Phase I ce. Phase erformanc agency pro	projects eva Il projects e e. Phase III posal projec	luate expand is for ts twice
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD B. Accomplishments/Planned P	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$ Research (S Phase II awa r/Short Way	1994, the S of an idea. A opments of and require r Proposal. SBIR) BIR) ards for SB ve Infrared	SBIR progra Awards are Phase I. Aves the use o USSOCOM (S) IR Topics: Radar Sens	am was refo up to \$0.10 wards are u f private or I then awa Visibility De or, Dual sp	ocused towa 20 million wi up to \$0.750 non-SBIR f rds its propo ecoy Flare, (beed Read C	ard dual use th a maximu) million with ederal fundi osed SBIR p Covert Peris Dut Integrati	and defens um six-mon n a maximur ng. DOD p projects. scope, Micro on Circuit, I	e reinvestr th period of m two-year ublishes go o Combat Facial Sign	nent efforts performan period of p overnment a	Phase I ce. Phase erformanc agency pro	projects eva II projects e e. Phase III posal projec FY 2013	luate expand is for ets twice FY 2014
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD B. Accomplishments/Planned P <i>Title:</i> Small Business Innovative F <i>FY 2012 Accomplishments:</i> Awarded numerous Phase I and F ID, Innovative Near Infrared Rada Recognition Performance Indicato	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$ Research (S Phase II awa r/Short Way	1994, the S of an idea. A opments of and require r Proposal. SBIR) BIR) ards for SB ve Infrared	SBIR progra Awards are Phase I. Aves the use o USSOCOM (S) IR Topics: Radar Sens	am was refo up to \$0.10 wards are u f private or I then awa Visibility De or, Dual sp	ocused towa 20 million wi up to \$0.750 non-SBIR fi rds its propo ecoy Flare, (beed Read C Swimmer Sit	ard dual use th a maximu) million with ederal fundi osed SBIR p Covert Peris Dut Integrati	and defens um six-mon n a maximul ing. DOD p projects. scope, Micro on Circuit, I areness Sy	e reinvestr th period of n two-year ublishes go combat acial Sign stem Integr	nent efforts period of p overnment a F	Phase I ce. Phase erformanc agency pro	projects eva II projects e e. Phase III posal projec FY 2013	luate expand is for ets twice FY 2014
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD B. Accomplishments/Planned P <i>Title:</i> Small Business Innovative F <i>FY 2012 Accomplishments:</i> Awarded numerous Phase I and F ID, Innovative Near Infrared Rada Recognition Performance Indicato	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$ Research (\$ Phase II awa r/Short Wat or, Helicopte	1994, the S of an idea. J opments of and require r Proposal. <u>6 in Millions</u> SBIR) ards for SB ve Infrared er Hostile Fi	SBIR progra Awards are Phase I. Aves the use o USSOCOM (S) IR Topics: Radar Sens	am was refo up to \$0.10 wards are u f private or I then awa Visibility De or, Dual sp	ocused towa 20 million wi up to \$0.750 non-SBIR fi rds its propo ecoy Flare, (beed Read C Swimmer Sit	ard dual use th a maximu) million with ederal fundi osed SBIR p Covert Peris Dut Integrati uational Awa	and defens um six-mon n a maximul ing. DOD p projects. scope, Micro on Circuit, I areness Sy	e reinvestr th period of n two-year ublishes go combat acial Sign stem Integr	nent efforts period of p overnment a F	. Phase I ce. Phase erformanc agency pro / 2012 10.634	FY 2013 0.000	luate expand is for ets twice FY 2014 0.000
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD B. Accomplishments/Planned P <i>Title:</i> Small Business Innovative F <i>FY 2012 Accomplishments:</i> Awarded numerous Phase I and F ID, Innovative Near Infrared Rada Recognition Performance Indicato EZTV Video Display.	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$ Research (\$ Phase II awa r/Short Wat or, Helicopte	1994, the S of an idea. J opments of and require r Proposal. <u>6 in Millions</u> SBIR) ards for SB ve Infrared er Hostile Fi	SBIR progra Awards are Phase I. Aves the use o USSOCOM (S) IR Topics: Radar Sens	am was refo up to \$0.10 wards are u f private or I then awa Visibility De or, Dual sp	ocused towa 20 million wi up to \$0.750 non-SBIR fi rds its propo ecoy Flare, (beed Read C Swimmer Sit	ard dual use th a maximu) million with ederal fundi osed SBIR p Covert Peris Dut Integrati uational Awa	and defens um six-mon n a maximul ing. DOD p projects. scope, Micro on Circuit, I areness Sy	e reinvestr th period of n two-year ublishes go combat acial Sign stem Integr	nent efforts period of p overnment a F	. Phase I ce. Phase erformanc agency pro / 2012 10.634	FY 2013 0.000	luate expand is for ets twice FY 2014 0.000
Business Development Act of 19 Reauthorization Act of 2001. Sta the scientific technical merit and the results of, and further pursue commercialization of the results per year for a consolidated DoD B. Accomplishments/Planned P <i>Title:</i> Small Business Innovative F <i>FY 2012 Accomplishments:</i> Awarded numerous Phase I and F ID, Innovative Near Infrared Rada Recognition Performance Indicato EZTV Video Display. C. Other Program Funding Sum N/A	arting in FY feasibility c e, the develo of Phase II Request fo rograms (\$ Research (\$ Phase II awa r/Short Wat or, Helicopte	1994, the S of an idea. J opments of and require r Proposal. <u>6 in Millions</u> SBIR) ards for SB ve Infrared er Hostile Fi	SBIR progra Awards are Phase I. Aves the use o USSOCOM (S) IR Topics: Radar Sens	am was refo up to \$0.10 wards are u f private or I then awa Visibility De or, Dual sp	ocused towa 20 million wi up to \$0.750 non-SBIR fi rds its propo ecoy Flare, (beed Read C Swimmer Sit	ard dual use th a maximu) million with ederal fundi osed SBIR p Covert Peris Dut Integrati uational Awa	and defens um six-mon n a maximul ing. DOD p projects. scope, Micro on Circuit, I areness Sy	e reinvestr th period of n two-year ublishes go combat acial Sign stem Integr	nent efforts period of p overnment a F	. Phase I ce. Phase erformanc agency pro / 2012 10.634	FY 2013 0.000	luate expand is for ets twice FY 2014 0.000

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp		DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160279BB: <i>Small Business Innovative</i> <i>Research</i>	PROJECT S050: Small Business Innovative Researc			
. Performance Metrics					
N/A					

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	d States	Special C	Operation	s Comma	and				DATE	: April 201	3	
0400: Research, Dev	PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development							R-1 ITEM NOMENCLATUREPROPE 1160279BB: Small Business InnovativeS050Research					ness Inno	vative Re	esearch
Product Developme	ent (\$ in Mi	llions)	[FY 2	2012	FY 2013		FY 2014 Base			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 Complete	Total Cost	Target Value of Contract
Phase I Projects	C/Various	Various:Various	20.296	1.501	Jun 2012	0.000		0.000		-		0.000	0.000	21.797	
Phase II Projects	C/Various	Various:Various	99.087	7.537	Jun 2012	0.000		0.000		-		0.000	0.000	106.624	
		Subtotal	119.383	9.038		0.000		0.000		0.000		0.000	0.000	128.421	
Support (\$ in Million	ns)				042	EV 2		FY 2			2014 CO	FY 2014 Total			
	,			FY 2	.012	F1 2	013	Bas	se	0	.0	TOLAI			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	013 Award Date	Ba: Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
	Contract Method & Type	U	-	Cost	Award		Award		Award		Award				Value of
Cost Category Item	Contract Method & Type C/Various	Activity & Location	Years	Cost 0.265	Award Date Mar 2012	Cost	Award	Cost	Award		Award	Cost	Complete	Cost	Value of
Cost Category Item Phase I Projects	Contract Method & Type C/Various	Activity & Location Various:Various	Years 3.582	Cost 0.265	Award Date Mar 2012	Cost 0.000	Award	Cost 0.000	Award		Award	Cost 0.000	Complete 0.000	Cost 3.847	Value of
Cost Category Item Phase I Projects	Contract Method & Type C/Various	Activity & Location Various:Various Various:Various	Years 3.582 17.498	Cost 0.265 1.331	Award Date Mar 2012 Mar 2012	Cost 0.000 0.000	Award Date	Cost 0.000 0.000	Award Date	Cost - - 0.000	Award Date	Cost 0.000 0.000	Complete 0.000 0.000	Cost 3.847 18.829	Value of

Remarks

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	14 United S	tates Speci	ial 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 1160403BB: SO Aviation Systems						
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	262.314	75.703	97.267	156.561	-	156.561	123.687	87.654	53.267	30.507	Continuing	Continuing
SF100: Aviation Systems Advanced Development	262.314	75.703	97.267	110.450	-	110.450	54.545	53.140	43.493	13.174	Continuing	Continuing
SF200: Special Operations CV-22 Development	-	0.000	0.000	2.911	-	2.911	0.182	0.000	0.000	0.000	0.000	3.093
S750: Mission Training and Preparation Systems	-	0.000	0.000	4.851	-	4.851	7.336	7.107	6.651	6.789	Continuing	Continuing
S875: AC/MC-130J	-	0.000	0.000	9.957	-	9.957	5.629	1.889	0.411	0.419	Continuing	Continuing
D615: Rotary Wing Aviation	-	0.000	0.000	28.392	-	28.392	55.995	25.518	2.712	10.125	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 SO Aviation Systems Program Element 1160403BB represents the approved project consolidation of SO Aviation Systems Advanced Development Program Element (PE) 1160403BB, SO CV-22 Development PE 1160421BB, Mission Training and Preparation Systems PE 1160427BB, AC/MC-130J PE 1160429BB and SOF Rotary Wing Aviation PE 1160482BB.

A. Mission Description and Budget Item Justification

Aviation Systems:

This project provides for the development, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; Low Probability of Intercept/Low Probability of Detection (LPI/LPD) terrain following/terrain avoidance radar; Electronic Warfare (EW) - radio frequency countermeasures; Precision Strike Package (PSP) for MC-130W Multi-Mission Modification; AC-130H, AC-130W, and AC-130U Recapitalization, and other SOF airborne platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; navigation, target detection, and identification technologies; digital broadcast capabilities; and aerial refueling.

CV-22 Development:

The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 project provides long range, high speed, infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. This is a capability not currently provided by other existing aircraft. The V-22 Joint Program Office is developing improved capabilities in block increments. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment was completed in FY 2007, and the Block 20 increment started in FY 2008.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Sp	pecial Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160403BB: SO Aviation Systems	
BA 7: Operational Systems Development		
 Block 10: Integrate and test Directional Infrared Countermeasures, a syste Commander Situational Awareness Station to provide the embarked troop system; relocate the ALE-47 chaff and flare dispenser control head to allo firing chaff and flare dispenser to provide an adequate quantity of consum missions; and incorporate a dual access feature to the Digital Map System display from the mission computer. Block 20: Design, integrate, test, and validate enhancements required to r This incremental development will provide improved capabilities to include survivability, maneuverability, mission deployment and improved reliability Mission Training and Preparation Systems: This project funds the definition, design, development, prototyping, integrate to support mission planning and rehearsal required to meet Special Operation planning and rehearsal capabilities. The MTPS project also include development, risk reduction, and trade study initiatives, as well as initiative 	o commander access to the CV-22's communication, navig w any cockpit crew member to activate defensive counter able countermeasures for the extended duration of SOF is in to allow both the pilot and co-pilot to independently acces meet SOF-unique mission requirements and correct defici- e, but not limited to, more robust performance in situationary and maintainability of the CV platform.	ation and mission management measures; add a second forward nfiltration, exfiltration, and resupply ss and control the digital map encies identified in previous testing. I awareness, weapons, avionics, and Execution (SOMPE) systems rrect deficiencies in current ation management, architecture
AC/MC-130J: The AC/MC-130J project funds core SOF-unique modifications to replace II, AC-130H Spectre, AC-130W Stinger II, AC-130U Spooky airframes. The replaced with MC-130J aircraft modified with the Precision Strike Package visibility, single or multi-ship low-level missions intruding politically-sensitive aircraft; airdrop of leaflets, small special operations teams, resupply bundl armed reconnaissance, escort, and force protection - integrated base defe- will procure and field basic aircraft, common support equipment, and train- capabilities onto the aircraft. Rotary Wing Aviation: This project develops SOF-unique modifications and upgrades to SOF rot supported by this project include: MH-60M, MH-47G, and A/MH-6M. Thes contingency operations and low-intensity conflicts. They must be capable ranges under adverse weather conditions to infiltrate, provide logistics for, ground based air defense system and an upgraded air-to-air capability tar	e 8 AC-130H Spectre, 12 AC-130W Stinger II and 17 AC- e (PSP) to achieve the AC-130J configuration. These platf ve or hostile territories; provide air refueling for special ope les and combat rubber raiding craft; and provide close air ense. Additional capabilities include low-level navigation a ers for USSOCOM. An incremental upgrade approach will ary wing aircraft that operate in increasingly hostile environ- e aircraft provide aviation support to Special Operations F of rapid deployment, undetected penetration of hostile are reinforce, and extract SOF. The threat is characterized b	130U Spooky airframes will be orms perform clandestine or low erations helicopters and CV-22 support (CAS), air interdiction, nd in-flight refueling. The Air Force be used to incorporate SOF nments. Rotary wing aircraft forces (SOF) in worldwide eas, and operating at extended

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United	States Spec	cial Operations Co	mmand	DATE	: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i>		R-1 ITEM NOME PE 1160403BB:	I		
BA 7: Operational Systems Development			· · · · · · · · · · · · · · · · · · ·		
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	74.382	97.267	64.688	-	64.688
Current President's Budget	75.703	97.267	156.561	-	156.561
Total Adjustments	1.321	0.000	91.873	-	91.873
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	3.243	-			
SBIR/STTR Transfer	-1.922	-			
Other Adjustments	-	-	91.873	-	91.873

Change Summary Explanation

FY 2012:

Net increase of \$1.321 million is due to reprogramming of funding to support PSP system enhancements (\$7.123 million) and TFTA radar requirements (\$3.021 million), decreases to SOF C-130 Avionics Modifications (-\$5.165 million) and EC-130 Modifications (-\$1.736 million) to support higher Command priorities, and a transfer of funds to Small Business Innovative Research (-\$1.922 million).

FY2014:

Increase of \$64.869 million is due to the approved consolidation of RDT&E program lines into PE 1160403BB; specific amounts consolidated: Special Operations CV-22 Development, PE 1160421BB +\$0.911 million AC/MC-130J, PE 1160429BB +\$8.225 million SOF Rotary Wing Aviation, PE 1160482BB +\$47.448 Mission Training and Preparation Systems, PE 1160427BB +\$8.285 million

Net Programmatic Increases (\$27.004 million) CV-22 Aircraft block upgrades increased by \$2.000 million AC/MC-130J Increment 3 development increased by \$5.000 million Electronic Warfare Countermeasure Development increased by \$2.000 million PSP Large Caliber Gun increased by \$29.559 million C-130 Terrain Following Radar Development increased by \$12.782 million Terrain Following/Terrain Avoidance (Silent Knight) Radar increased by \$11.306 million Decrease of \$27.578 million realigned to support higher Department priorities. Decrease of \$8.065 million realigned to support higher Command priorities.

	DATE: April 2013		
R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems			

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 L	Inited State	s Special O	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 1160403BB: SO Aviation Systems				PROJECT SF100: Aviation Systems Advanced Development			ed
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
SF100: Aviation Systems Advanced Development	262.314	75.703	97.267	110.450	-	110.450	54.545	53.140	43.493	13.174	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 investigation, evaluation, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; low probability of intercept/low probability of detection (LPI/LPD), terrain following/terrain avoidance (TF/TA) radar; electronic warfare – radio frequency countermeasures (RFCM); Precision Strike Package (PSP) for MC-130W Multi-Mission Modification, AC-130H replacement aircraft, and other SOF platforms; digital terrain elevation data and electronic order of battle; digital maps; Enhanced Situational Awareness (ESA); near-real-time intelligence to include data fusion, threat detection and avoidance; navigation, target detection and identification technologies; digital broadcast capability; and aerial refueling.

• SOF C-130 Avionics Modifications: Provides for development necessary to maintain current SOF-unique capabilities for SOF C-130 aircraft. Includes the fit/function/ interface replacement of the mission computers on the MC-130H and AC-130U aircraft due to obsolescence issues with the current AP-102 mission computer.

• EC-130J Commando Solo Upgrades: Provides for integration of SOF-unique implementation of the C-130J block cycle upgrade as installed on the EC-130J Commando Solo aircraft and development of digital broadcast capabilities.

• ESA for MC-130H: Provides for near-real-time intelligence reporting to include data fusion, threat detection, identification, and avoidance.

• EW – Radio Frequency (RF) Countermeasures: Supports development, integration and test activities to provide EW capability against RF threats for SOF AC/ MC-130J aircraft. The RF countermeasures program provides SOF-unique aircraft defensive capabilities required for Special Operations Forces missions. This program is a new start in FY 2014.

• PSP for SOF: Supports systems engineering, analysis, development, and enhancement of the baseline PSP for later integration and installation onto host MC-130J aircraft provided by the U.S. Air Force for the AC-130H, AC-130W and AC-130U recapitalization, as well as current SOF C-130s other SOF platforms. Missions for the AC-130 aircraft include, but are not limited to, Close Air Support (CAS), Air Interdiction, Armed Reconnaissance, Escort, and Force Protection - Integrated Base Defense. PSP is modular, scalable, and platform neutral.

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	pecial Operations Command	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160403BB: SO Aviation Systems	SF100: Aviation S	/stems Advan	ced
BA 7: Operational Systems Development		Development		
 PSP Large Caliber Gun: Supports systems engineering, analysis, devinstalled on the MC-130J aircraft. This program is a new start in FY 20 		n capability enhance	ment to the P	SP
 C-130 Terrain Following Radar System: Supports development, integ capability on MC-130J aircraft. 	ration and test of a TF/TA radar and on-board proce	ssor to provide a mi	ulti-mode terra	in following
 SOF Common Terrain Following/Terrain Avoidance (TF/TA) (Silent K qualification, and operational flight testing of a SOF common LPI/LPD radar is targeted for use on all MH-47G Heavy Assault helicopters, MC 	radar to defeat advanced passive detection threats v			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Title: SOF C-130 Avionics Modifications		2.399	0.000	0.000
FY 2012 Accomplishments: Completed development and integration of aircraft modifications to main acquisition strategy based on SOF C-130 avionics obsolescence dates, replacement.				
Title: EC-130J Commando Solo Upgrades		0.000	0.673	0.693
FY 2013 Plans: Continue integration of SOF-unique implementation of the C-130J block aircraft and development of digital broadcast capabilities.	cycle upgrade installed on the EC-130J Commando	Solo		
FY 2014 Plans: Continues integration and test of digital broadcast capabilities.				
Title: ESA for MC-130H		0.000	1.800	0.91
FY 2013 Plans: Initiate risk reduction, development and integration of an enhanced situation o	ational awareness system on MC-130H aircraft.			
FY 2014 Plans: Continue risk reduction, development and integration of an enhanced sit	tuational awareness system on MC-130H aircraft.			
<i>Title:</i> EW – RF Countermeasures		0.000	0.000	2.000
FY 2014 Plans: FY 2014 new start. Initiates risk reduction activities and development eff MC-130J aircraft.	forts for an EW - RF countermeasures system on AC	/		
Title: Precision Strike Package (PSP) for SOF		32.879	29.351	13.323
PE 1160403BB: SO Aviation Systems	UNCLASSIFIED			

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	pecial Operations Command	DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	PE 1160403BB: SO Aviation Systems	PROJECT SF100: Aviation Systems Advanced Development			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014	
FY 2012 Accomplishments: Continued development, integration, risk reduction, test and system imp	rovement of the PSP on MC-130J aircraft.				
FY 2013 Plans: Continue development, integration, test, and system improvement of the	e PSP on MC-130J aircraft.				
FY 2014 Plans: Continues development, integration, test, and system improvement of the	e PSP on SOF C-130s and other SOF aircraft.				
Title: Precision Strike Package Large Caliber Gun		0.000	0.000	19.674	
FY 2014 Plans: FY 2014 new start. Develops, integrates and tests of large caliber gun of	apability upgrade of the PSP on AC-130J aircraft				
<i>Title:</i> C-130 TF Radar System		17.083	37.523	50.213	
FY 2012 Accomplishments: Continued development and integration of the TF Radar System onto M	C-130J aircraft.				
FY 2013 Plans: Continue development and integration of the TF Radar System onto MC	c-130J aircraft.				
FY 2014 Plans: Continues development, integration and test of the TF Radar System or and an Operational Utility Evaluation for the first software spiral providin integration and test efforts for LPI TF capabilities on MC-130J aircraft as	g initial TF Capabilities. Also supports development,	g			
Title: SOF Common TF/TA (Silent Knight) Radar		23.342	27.920	23.636	
FY 2012 Accomplishments: Continued EMD of SOF Common TF/TA radar. Completed contractor fli flight testing.	ght testing and platform integration. Began developme	ntal			
<i>FY 2013 Plans:</i> Continue EMD of SOF Common TF/TA radar. Continue developmental	flight testing.				
FY 2014 Plans: Continues EMD of SOF Common TF/TA radar. Performs qualification fli	ght testing and begin operational flight testing.				
	Accomplishments/Planned Programs Subto	tals 75.703	97.267	110.450	

Exhibit R-2A, RDT&E Project Justi	ification: PB	2014 United	States Spe	cial Operatic	Operations Command					DATE: April 2013			
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop		R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems				PROJECT SF100: Aviation Systems Advanced Development							
C. Other Program Funding Summa	ary (\$ in Milli	ons <u>)</u>											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>			
Line Item	<u>FY 2012</u>	<u>FY 2013</u>	Base	000	Total	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	Complete	Total Cost		
• PROC1:: <i>C-130</i>	27.965	25.248	71.940		71.940	73.416	67.182	110.591	112.890	Continuing	Continuing		
MODIFICATIONS										-	-		
PROC2:: PRECISION STRIKE	0.000	73.013	107.687		107.687	184.232	240.382	281.984	278.418	826.890	1,992.606		
PACKAGE													
• PROC3:: Rotary Wing Upgrades			93.813		93.813	122.633	160.088	197.954	176.204	Continuing	Continuing		
and Sustainment										0	0		
Demerice													

Remarks

D. Acquisition Strategy

• SOF C-130 Avionics Modifications: Develop a fit/function/ interface replacement mission computer and rehost existing Operational Flight Program and Fire Control Software. Effort is being executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence mitigation need dates.

• EC-130J Commando Solo Upgrades. Operational Flight Program Block Cycle is being developed by the Air Force program office using existing development and production contracts. Digital broadcast capabilities are being procured through an incremental acquisition strategy to incorporate and test readily available equipment into the EC-130J aircraft.

• ESA for MC-130H: Award competitive development contract for software integration effort for enhanced situational awareness hardware to include processors and displays.

• EW – RF Counter Measures: Award a competitive Engineering and Manufacturing Development (EMD) contract for development, integration and test of an RF Countermeasure system on AC/MC-130J aircraft.

• PSP MC-130W Multi-Mission Modification: Executing incremental acquisition strategy with development, integration and testing for offensive systems, sensors, and mission management.

• PSP for SOF: Incremental acquisition strategy to integrate and test the PSP and capability enhancements on MC-130J aircraft provided by the U.S. Air Force and the current SOF C-130s. Multiple contract awards.

• PSP Large Caliber Gun: Combination of Government Service activity and contractor development, integration and test for large caliber gun capability enhancement for the PSP installed on AC-130J aircraft. Multiple contract awards.

• C-130 TF Radar System: Awarded competitive EMD contract for development, integration and test in FY 2012 A minimum of two spirals are planned for integrating a TF radar on the MC-130J aircraft. Spiral one is the initial effort to integrate and test TF capabilities. Spiral two is planned to develop, integrate and test LPI TF capabilities on the MC-130J. Spiral two is planned as a software modification to hardware initially integrated and tested as part of Spiral one.

• SOF Common TF/TA (Silent Knight) Radar: Executing incremental acquisition strategy with the MH-47G as the lead platform. A competitive EMD contract with an option for six low-rate initial production (LRIP) units was awarded to Raytheon in FY 2007. MH-60M Group A design and integration effort was awarded in FY 2010. Follow-on platforms (MC -130 & CV-22) Group A design and integration efforts will be awarded. Group A production and installation contracts will be awarded. A follow-on radar production contract using LRIP price points will be awarded.

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	PE 1160403BB: SO Aviation Systems	SF100: Aviation Systems Advanced
BA 7: Operational Systems Development		Development
E. Performance Metrics		
N/A		

Exhibit R-3, RDT&E I APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	JDGET AG	CTIVITY Test & Evaluation,			Special	R-1 ITE		NCLATU	RE ion Syster	ns	PROJE SF100: <i>Develop</i>	CT Aviation S	: April 20 Systems /		1
Product Developmen				FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 O(2014	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
EC-130J Commando Solo Upgrades	C/CPIF	Lockheed Martin:Marietta, GA	3.791	-		0.673	Dec 2012	0.693	Dec 2013	-		0.693	Continuing	Continuing	
ESA for MC-130H	C/TBD	TBD:TBD	-	-		1.800	Dec 2012	0.911	Jan 2014	-		0.911	Continuing	Continuing	
EW Systems - RF Countermeasures	C/TBD	TBD:TBD	-	-		-		2.000	Mar 2014	-		2.000	Continuing	Continuing	
PSP for SOF - Prime Mission Product	SS/ Various	Various:Various	4.067	30.661	Aug 2012	29.351	Mar 2013	4.098	Mar 2014	-		4.098	Continuing	Continuing	
PSP Large Caliber Gun	C/TBD	Various:Various	-	-		-		9.625	Mar 2014	-		9.625	Continuing	Continuing	
C-130 TF Radar System	C/CPIF	Scientific Research Corporation:Atlanta, GA	1.930	17.083	Apr 2012	37.523	Dec 2012	50.213	Jan 2014	-		50.213	Continuing	Continuing	
SOF Common TF/TA (Silent Knight) Radar - Systems Engineering	C/Various	Various:Various	14.407	1.167	Dec 2011	1.396	Dec 2012	1.182	Dec 2013	-		1.182	Continuing	Continuing	
SOF Common TF/TA (Silent Knight) Radar Prime Mission Product	C/CPIF	Raytheon:Dallas, TX	76.927	1.167	Dec 2011	1.396	Dec 2012	1.182	Dec 2013	-		1.182	Continuing	Continuing	
Prior Year Funding - Completed Efforts	TBD	Various:Various	63.939	-		-		-		-		-	0.000	63.939	
SOF C-130 Avionics Modifications	C/FFP	Various:Various	13.192	3.164	May 2012	-		-		-		-	0.000	16.356	
		Subtotal	178.253	53.242		72.139		69.904		0.000		69.904			
Support (\$ in Million	s)			FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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
PSP for SOF	C/Various	Various:Various	0.384	1.453	Mar 2012	-		0.475	Jan 2014	-		0.475	Continuing	Continuing	
PSP Large Caliber Gun	C/Various	Various:Various	-	-		-		1.182	Mar 2014	-		1.182	Continuing	Continuing	
Prior Year Funding - COmpleted Efforts	TBD	Various:Various	22.334	-		-		-		-		-	0.000	22.334	

84

APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Defense-I	Nide			M NOME 0403BB: \	-	IRE ion Syster	ns	PROJE SF100: Develop	Aviation S	Systems A	Advanceo	1
Support (\$ in Million	ıs)			FY	2012	FY 2	2013		2014 Ise	FY 2 O	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 Complete	Total Cost	Target Value of Contract
		Subtotal	22.718	1.453		0.000		1.657		0.000		1.657			
Test and Evaluation	ı (\$ in Milli	ons)	ſ	FY	2012	FY 2	2013		2014 Ise	FY 2 OC	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 Complete	Total Cost	Target Value of Contract
PSP for SOF	C/Various	Various:Various	-	-		-		8.750	Jan 2014	-		8.750	Continuing	Continuing	
PSP Large Caliber Gun	C/Various	Various:Various	-	-		-		8.867	Mar 2014	-		8.867	Continuing	Continuing	
SOF Common TF/TA (Silent Knight) Radar	C/CPIF	Various:Various	37.420	19.140	Dec 2011	22.894	Dec 2012	19.381	Dec 2013	-		19.381	Continuing	Continuing	
		Subtotal	37.420	19.140		22.894		36.998		0.000		36.998			
Management Servic	es (\$ in M	illions)	[FY	2012	FY 2	2013		2014 Ise	FY 2 O		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 Common TF/TA (Silent Knight) Radar	C/CPIF	Raytheon:Dallas, TX	23.923		Dec 2011		Dec 2012		Dec 2013	-		1.891	Continuing	Continuing	
		Subtotal	23.923	1.868		2.234		1.891		0.000		1.891			
			All Prior Years	FY	2012	FY 2	2013		2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	262.314	75.703		97.267		110.450		0.000		110.450			

hibit R-4, RDT&E Schedule Profile: PB 2014 U	Unite	ed S	States	s Sp	pecia	al Op	perat	ions	Cor	nma	nd										I	DAT	E : A	April	201	13		
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, 7: Operational Systems Development	Def	ens	e-Wi	de						M N 0403					E า Sys	sterr	is		SF1	OJE(100: / /elop	Avie		Sys	stem	ns A	dvai	ncec	d
		FY	′ 201	2		FY	201	3		FY	2014	4		FY	2015	5		FY 2	2016	;		FY 2	2017	,		FY	201	8
	1	2	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 C-130 Avionics																												
SOF C-130 Avionics Modifications																												
EC-130J Commando Solo Upgrades											_																	_
EC-130J Commando Solo Upgrades																												
Enhanced Situational Awareness for MC-130H																												
Enhanced Situational Awareness for MC-130H																												
Electronic Warfare - RF Countermeasures																												
Electronic Warfare - RF Countermeasures																												
Precision Strike Package for SOF																												
Precision Strike Package for SOF																												
Precision Strike Package for Large Caliber Gun																												
C-130 Terrain Following Radar System																												
C-130 TF Spiral 1 Development, Integration, Test																												
C-130 TF Spiral 2 Development, Integration, Test																												
SOF Common TF/TA (Silent Knight) Radar																												
Developmental Testing																												
Operational Testing																												

Exhibit R-4A, RDT&E Schedule Details: 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 1160403BB: SO Aviation Systems	PROJECT SF100: Aviation Systems Advanced Development

Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
SOF C-130 Avionics				
SOF C-130 Avionics Modifications	3	2012	3	2013
EC-130J Commando Solo Upgrades				
EC-130J Commando Solo Upgrades	1	2012	4	2017
Enhanced Situational Awareness for MC-130H			· · · · · ·	
Enhanced Situational Awareness for MC-130H	3	2013	4	2016
Electronic Warfare - RF Countermeasures				
Electronic Warfare - RF Countermeasures	2	2014	4	2017
Precision Strike Package for SOF				
Precision Strike Package for SOF	1	2012	4	2018
Precision Strike Package for Large Caliber Gun	3	2014	2	2016
C-130 Terrain Following Radar System				
C-130 TF Spiral 1 Development, Integration, Test	1	2012	2	2014
C-130 TF Spiral 2 Development, Integration, Test	1	2014	1	2016
SOF Common TF/TA (Silent Knight) Radar			· · · · · ·	
Developmental Testing	1	2012	4	2014
Operational Testing	4	2014	2	2015

Exhibit R-2A, RDT&E Project	Justification	: PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide		1	NOMENCL D3BB: SO A	ATURE viation Syst	ems	PROJECT SF200: Sp Developme	ecial Opera	tions CV-22	
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
SF200: Special Operations CV-22 Development	-	0.000	0.000	2.911	-	2.911	0.182	0.000	0.000	0.000	0.000	3.093
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

Mission Description and Budget Item Justification: The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 provides long range, high speed infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. This is a capability not currently provided by existing aircraft. The V-22 Joint Program Office is developing improved capabilities in block increments supported with rapid prototyping. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment completed in FY 2007, and the Block 20 increment started in FY 2008.

Block 10: Integrate and test Directional Infrared Countermeasures, a system that protects against infrared guided missiles; design, integrate and validate the Troop Commander Situational Awareness Station to provide the embarked troop commander access to the CV-22's communication, navigation and mission management system; relocate the ALE-47 chaff and flare dispenser control head to allow any cockpit crew member to activate defensive countermeasures; add a second forward firing chaff and flare dispenser to provide an adequate quantity of consumable countermeasures for the extended duration of SOF infiltration, exfiltration, and resupply missions; and incorporate a dual access feature to the Digital Map System to allow both the pilot and co-pilot to independently access and control the digital map display from the mission computer.

Block 20: Design, integrate, test, and validate enhancements required to meet SOF-unique mission requirements and correct deficiencies identified in previous testing. This incremental development will provide improved capabilities to include, but not limited to, robust performance in situational awareness, weapons, avionics, survivability, maneuverability, mission deployment, improved reliability and maintainability of the CV platform.

Title: CV-22 Aircraft Block 20	0.000	0.000	2 011
		0.000	2.911
FY 2014 Plans: Continues ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and developmental testing for aircraft block upgrades.			
Accomplishments/Planned Programs Subtota	s 0.000	0.000	2.911

Exhibit R-2A, RDT&E Project Justit	fication: PB	2014 United	States Spec	cial Operatio	ons Comman	d			DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACTIVI	ТҮ			R-1 IT	EM NOMEN	CLATURE		PROJEC	T		
0400: Research, Development, Test	& Evaluation,	, Defense-W	lide	PE 11	60403BB: S	O Aviation S	ystems	SF200: S	pecial Oper	ations CV-2	2
BA 7: Operational Systems Developm	nent							Developn	nent		
C. Other Program Funding Summa	ry (\$ in Milli	ons <u>)</u>		I				I			
			<u>FY 2014</u>	FY 2014	<u>FY 2014</u>					Cost To	
Line Item	<u>FY 2012</u>	<u>FY 2013</u>	Base	000	Total	<u>FY 2015</u>	<u>FY 2016</u>	FY 2017	<u>FY 2018</u>	Complete	Total Cost
• PROC1: 1000CV2200 CV-22	116.536	139.147	98.927		98.927	19.828	14.203	7.783	6.726	0.000	1,696.207
SOF Modification											
PROC2/V022A0: Aircraft	359.865	309.220	230.798		230.798	0.000	0.000	0.000	0.000	0.000	4,272.414
Procurement CV-22 (MYP)											
• RDT&E1/0401318F: <i>RDT&E,</i>	13.223	28.027	46.705		46.705	41.588	26.728	16.073	14.566	131.500	613.166
USAF											
• RDT&E/0604262N: V-22 RDT&E,	71.938	54.512	43.084		43.084	68.816	60.659	53.319	53.063	273.513	9,363.505
N BA-05											
<u>Remarks</u>											

D. Acquisition Strategy

The CV-22 program is managed by the Navy V-22 Joint Program Office (NAVAIRSYSCOM PMA-275). This ensures that the CV-22 changes are incorporated into the ongoing V-22 production line with minimum impact. Funding for the baseline CV-22 Engineering Manufacturing and Development, known as Block 0, is embedded in the Navy budget. Block 10 RDT&E funding was sent from USSOCOM to NAVAIRSYSCOM to be placed on contract with the V-22 prime contractor. Block 10 capability is required for compliance with the Joint Operational Requirements Document and associated Milestone III Capabilities Production Document. Block 20 and subsequent block upgrades are planned to follow the same acquisition strategy, with NAVAIRSYSCOM PMA-275 ensuring the integration of SOF-unique systems with the ongoing basic vehicle improvements supporting both the CV-22 and the Marine Corps MV-22.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operation	s Comma	and				DATE	: April 201	3	
APPROPRIATION/BI 0400: Research, Dev BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-I	Wide				NCLATU SO Aviati	I RE ion Syster	ns	PROJE SF200: <i>Develop</i>	Special C	perations	CV-22	
Product Developme	nt (\$ in M	illions)	ſ	FY 2	2012	FY 2	013		2014 Ise	FY 2 OC		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
Enhanced Situational Awareness	SS/TBD	TBD:TBD	-	-		-		0.911	Mar 2014	-		0.911	0.182	1.093	
		Subtotal	0.000	0.000		0.000		0.911		0.000		0.911	0.182	1.093	
Test and Evaluation	(\$ in Milli	ions)	ſ	FY 2	2012	FY 2	013		2014 Ise	FY 2 OC		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
Systems Test and Evaluation (Block 20)	SS/ Various	Bell-Boeing; 413FLTS:Amarillo, Tx; Fort Worth, TX	-	-		-		1.000	Jan 2014	-		1.000	0.000	1.000	
System Test and Evaluation	SS/ Various	Bell-Boeing; Dyncorp:Amarillo, TX; Fort Worth, TX	-	-		-		1.000	Dec 2013	-		1.000	0.000	1.000	
		Subtotal	0.000	0.000		0.000		2.000		0.000		2.000	0.000	2.000	
			All Prior Years	FY 2	2012	FY 2	013		2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.000		0.000		2.911		0.000		2.911	0.182	3.093	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014	Uni	ed ?	Stat	es S	Spe	cial	Ор	erati	ions	Cor	nma	nd											DA	ATE:	Apri	20	13		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, 3A 7: Operational Systems Development	De	fens	е-И	Vide								-	SO /		-		tem	s			200		ecia	al Op	erat	ions	: CV	-22	
	Γ	F	1 20)12			FY	201	3		FY	2014	1		FY	2015			FY 2	2016	;		F۲	(201	7		FY	201	8
		1 [1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2 3	4	1	2	3	4
CV-22																													
GV-22																													
CV-22 Block 20 Development/Test																													

khibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		DATE: Ap	ril 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Sys	tems	PROJECT SF200: Special Oper Development	ations CV-22
	Schedule Details			
		rt	F	Ind
Events by Sub Project	Schedule Details Sta Quarter	rt Year	E Quarter	End Year
Events by Sub Project CV-22	Sta	-		
	Sta	-		

Exhibit R-2A, RDT&E Project	Justification	PB 2014 L	Jnited State	s Special C	perations C	command				DATE: Apr	il 2013				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					R-1 ITEM PE 116040	NOMENCLA 03BB: SO A	-	PROJECT S750: Miss Systems	T ssion Training and Preparation						
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			
S750: Mission Training and Preparation Systems	-	0.000	0.000	4.851	-	4.851	7.336	7.107	6.651	6.789	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 the definition, design, development, prototyping, integration, and testing of Mission Training and Preparation Systems (MTPS) to support training, avoid obsolescence, and maintain simulator concurrency with weapon system configurations; support mission planning and rehearsal systems enhancements required to meet Special Operations Force (SOF)-unique mission requirements and correct deficiencies identified in previous testing; and support mission planning and rehearsal capabilities in current MTPS. The MTPS project also includes program management, systems engineering, configuration management, architecture development, risk reduction, and trade study initiatives, as well as initiatives to assure interoperability and commonality between diverse SOF training systems.

Sub-projects include:

• Special Operations Mission Planning Environment (SOMPE): Develops, integrates, tests, and validates software enhancements required to meet SOF-unique requirements for, and correct deficiencies to, mission planning, preview, and execution software tools to support all phases of SOF operations from deliberate to time critical. The SOMPE project automates time-sensitive planning activities and provides enhanced situational awareness during mission execution. SOMPE provides the interoperable environment for SOF adaptive planning to integrate global operations including, but not limited to, precision strike software, digital navigation, and unmanned aerial systems command and control. This project also provides the integration of SOMPE with multi-dimensional visualization systems, providing immersive mission rehearsal in minimal timeframes from the SOMPE mission plan. SOMPE is embedded in the USSOCOM Headquarters, Theater Special Operations Commands, Joint Special Operations Task Forces, Joint Special Operations Aviation Components, SOF war-fighters, and SOF warfighter platforms.

• MC/AC-130J Simulator (MC/AC-130J): Conducts analysis, development, integration, assembly, test and checkout of SOF-unique MC-130J and AC-130J simulator development efforts modifications to include, but not limited to, all efforts of technical and functional activities associated with the design, development, and production of mating surfaces, structures, equipment, parts, materiels, and software required to assemble equipment (hardware/software) elements into training mission equipment as a whole and not directly part of any other individual element.

• Terrain Following/Terrain Avoidance Silent Knight Radar Simulator (TF/TA SKR): Integrates, tests, and validates the SKR capability into the MH-47G and MH-60 combat mission simulators. This is a SOF-common multi-mode radar characterized by a Low Probability of Intercept/ Low Probability of Detection (LPI/LPD) capability.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Special Operations Mission Planning and Execution (SOMPE)	0.000	0.000	4.851

93

Exhibit R-2A, RDT&E Project Justif	ication: PB	2014 United	States Spe	cial Operatio	ons Commar	nd			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIVI 0400: Research, Development, Test & BA 7: Operational Systems Developn	& Evaluation,	Defense-W	lide		EM NOMEN 60403BB: <i>S</i>		Systems	PROJEC S750: Mis Systems	ssion Traini	ng and Prep	aration
B. Accomplishments/Planned Prog	rams (\$ in N	<u>/illions)</u>						F	Y 2012	FY 2013	FY 2014
Continue required development of so requirements, data transfer software systems, and automated performance transfer and performance software co	from mission e models and	planning sy performan	stems to SC)F helicopter i software. C	s, airplanes completes te	, and simula sting of miss	tor/rehearsal	, data	0.000	0.000	4.85
C. Other Dreaton Funding Summe	m. (¢ in Milli										
C. Other Program Funding Summa	ry (\$ in willing	<u>ons)</u>	FY 2014	FY 2014	FY 2014					Cost To	
Line Item • PROC2: AC/MC-130J	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u> 7.996	000	<u>Total</u> 7.996	<u>FY 2015</u> 4.436	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>		Total Cos
PROC3: C-130 MODIFICATIONS PROC4: ROTARY WING UPGRADE AND SUSTAINMENT			17.334 93.813		17.334 93.813	7.741 122.633	19.175 160.088	20.492 197.954		Continuing Continuing	Continuin
Remarks											

<u>Remarks</u>

D. Acquisition Strategy

• SOMPE: Comprises multiple mission planning software development contracts awarded annually to developers for each project effort. Acquisition strategies depend on the type of development effort. For minor software development projects, contracts may be awarded as sole source acquisitions from existing contract vehicles. For major software development projects, contracts may be awarded as limited or full and open competition acquisitions. Individual acquisition strategies are developed as the scope of software development projects are identified and defined.

• MC/AC-130J Simulator: Comprises multiple contracts that may be awarded via competition or sole source to developers for each project effort as required to ensure training device development conforms to MC/AC-130J SOF-unique capabilities.

• TF/TA SKR: Contract awarded as a competitive small business set aside. Project will be integrated as part of the Common Avionics Architecture System integration effort.

E. Performance Metrics

None

Exhibit R-3, RDT&E	Project C	ost Analysis: PB	2014 Unite	ed States	Special	Operation	s Comma	and			_	DATE	: April 20	13	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy			NCLATU SO Aviati	CT Aission Tra s	aining and	d Prepara	ation								
Product Developme	ent (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 Ise		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 Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning and Execution (SOMPE) Software	C/TBD	Various:Various	-	-		-		4.107	Jan 2014	-		4.107	Continuing	Continuing	
		Subtotal	0.000	0.000		0.000		4.107		0.000		4.107			
Support (\$ in Million	ıs)			FY 2	2012	FY 2	2013		2014 Ise	FY 2 O(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 Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning and Execution (SOMPE) Software	MIPR	Special Operations Mission Planning Office:Fort Eustis, VA	-	-		-		0.264	Feb 2014	-		0.264	Continuing	Continuing	
		Subtotal	0.000	0.000		0.000		0.264		0.000		0.264			
Test and Evaluation	ı (\$ in Milli	ions)		FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC	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 Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning and Execution (SOMPE) Software	C/CPFF	Wyle-CAS:Huntsville, AL	-	-		-		0.480	Jan 2014	-		0.480	Continuing	Continuing	
		Subtotal	0.000	0.000		0.000		0.480		0.000		0.480			
			All Prior		FY 2012		FY 2013		2014	FY 2		FY 2014	Cost To	Total	Target Value of
			Years	FY 2	2012	FY 2	2013	Ba	ise	00	0	Total	Complete	Cost	Contract

95

xhibit R-4, RDT&E Schedule Profile: PB 2014 L	Jnite	ed S	states	Spe	ecia	Ope	eratio	ons (Corr	nmar	nd											DAT	E: A	pril	201	3		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, A 7: Operational Systems Development	Defe	ense	∍-Wid	le							-			URE ation		tem	s				Aissi	ion 1	Train	ing a	and	Prep	oara	itior
											FY 2015			4			2016	5			2017			FY 20 ⁻		-		
Special Operations Mission Planning and Execution (SOMPE) Software	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		2	3	4	1	2	3	4
Software Development																						1						-
Development Support																						I						-
Test & Evaluation																						Ī						

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Ope	erations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems	PROJECT S750: Miss Systems	sion Training and Preparation

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Special Operations Mission Planning and Execution (SOMPE) Software				
Software Development	1	2012	1	2017
Development Support	1	2012	1	2017
Test & Evaluation	1	2012	1	2017

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 L	Jnited States	s Special O	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide			NOMENCL D3BB: SO A	-	ems	PROJECT S875: AC/I			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S875: AC/MC-130J	-	0.000	0.000	9.957	-	9.957	5.629	1.889	0.411	0.419	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

The AC/MC-130J project funds core Special Operations Forces (SOF)-unique modifications to replace aging MC-130E Combat Talon I, MC-130P Combat Shadow, MC-130H Combat Talon II, AC-130H Spectre, AC-130W Stinger II, and AC-130U Spooky airframes. The 8 AC-130H Spectre, 12 AC-130W Stinger II and 17 AC-130U Spooky airframes will be replaced with MC-130J aircraft modified with the Precision Strike Package (PSP) to achieve the AC-130J configuration. These platforms perform clandestine or low visibility, single- or multi-ship low-level missions intruding politically-sensitive or hostile territories; provide air refueling for special operations helicopters and CV-22 aircraft; airdrop leaflets, small special operations teams, resupply bundles and combat rubber raiding craft; and close air support (CAS), air interdiction, armed reconnaissance, escort, and force protection - integrated base defense. Additional capabilities include low-level navigation and in-flight refueling. The Air Force will procure and field basic aircraft, common support equipment, and trainers for USSOCOM. USSOCOM will then employ an incremental upgrade approach to incorporate SOF capabilities onto the Air Force-provided aircraft.

Conducts development, integration, and testing of aircraft enhancements to meet SOF-unique mission requirements. Enhancements include, but are not limited to, SOF communications, mission processors, aircraft performance enhancements, enhanced situational awareness, electronic warfare and survivability systems, and other SOF mission kits. Provides PSP aircraft infrastructure development.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: AC/MC-130J	0.000	0.000	9.957
<i>FY 2014 Plans:</i> Continues SOF-unique mission improvements including, but not limited to, MC-130J Increment 3 development, integration, and test efforts. Initiates Enhanced Situational Awareness (ESA) integration and test. ESA is a new start program in FY 2014 for integration, test and installation on MC-130J aircraft. Develop and test aircraft modification designs for PSP kit installation.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	9.957

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	States Spec	cial Operatio	ons Comman	d			DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation,	Defense-W	ïde		EM NOMEN 60403BB: So		ystems	PROJECT S875: AC			
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>									
			FY 2014	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	
Line Item	FY 2012	FY 2013	Base	000	<u>Total</u>	<u>FY 2015</u>	FY 2016	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	Total Cost
• PROC1: SOF TANKER	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	99.666
RECAPITALIZATION											
• PROC2: AC/MC-130J	61.391	51.484	51.870		51.870	105.105	57.527	58.866	95.694	Continuing	Continuing
• PROC3: PRECISION STRIKE	0.000	73.013	107.687		107.687	184.232	240.382	281.984	278.418	705.250	1,870.966
PACKAGE											
Remarks											

D. Acquisition Strategy

The basic AC/MC-130J aircraft will be acquired under the United States Air Force HC/MC-130J Recapitalization procurement program. USSOCOM will fund development, integration, test and production/retrofit of SOF-unique mission equipment under this program and the USSOCOM Precision Strike Package program.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 7: <i>Operational Sy</i> :	elopment,	Test & Evaluation,	Defense-I	Wide			M NOME 0403BB:		I RE ion Syster	ns	PROJE S875: <i>A</i>	СТ А <i>С/МС-13</i>	0J		
Product Developme	nt (\$ in Mi	illions)		FY 2	2012	FY 2	013	FY 2 Ba	2014 Ise		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 Complete	Total Cost	Target Value of Contract
MC-130J	C/Various	Lockheed Martin:Atlanta, GA	-	-		-		5.957	Jan 2014	-		5.957	Continuing	Continuing	
AC-130J	C/Various	Lockheed Martin:Lexington, KY	-	-		-		4.000	Jan 2014	-		4.000	Continuing	Continuing	
		Subtotal	0.000	0.000		0.000		9.957		0.000		9.957			
			All Prior Years	FY 2	2012	FY 2	013		2014 Ise		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.000		0.000		9.957		0.000		9.957			

Remarks

Exhibit R-4, RDT&E Schedule Prof	ile: PB 2014 Unite	d S	tates	Sp	ecia	l Op	erati	ions	Cor	nma	nd											DA	TE:	Арі	ril 20	013		
APPROPRIATION/BUDGET ACTIVI 0400: Research, Development, Test BA 7: Operational Systems Developr	& Evaluation, Defe	nse	e-Wia	le							I OM 3BB:			-		stem	S		1	OJE 75: 7		MC-	130	J				
		FY	2012	2		FY	201	3		FY	2014	4		FY	2015	5		FY	2016	5		FY	201	7		F	Y 20	18
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4 [·]	1	2	3 4
AC/MC-130J																												·

hibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		DATE: A	pril 2013
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Sys		PROJECT S875: AC/MC-130J	
	_			
	Schedule Details			
	Schedule Details	rt		End
Events by Sub Project		rt Year	Quarter	End Year
Events by Sub Project AC/MC-130J	Sta		Quarter	

Exhibit R-2A, RDT&E Project J	ustification	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide			NOMENCLA D3BB: SO A	-	ems	PROJECT D615: Rota	ary Wing Av	viation	
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
D615: Rotary Wing Aviation	-	0.000	0.000	28.392	-	28.392	55.995	25.518	2.712	10.125	Continuing C	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 develops/upgrades SOF rotary wing aircraft systems that operate in increasingly hostile environments. Rotary wing aircraft supported by this project include: MH-60M, MH-47G, and A/MH-6M. These aircraft provide aviation support to SOF in worldwide contingency operations and low-intensity conflicts, and they must be capable of rapid deployment; undetected penetration of hostile areas; and operating at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters. Sub-projects include:

• A/MH-6M Block 3.0 Upgrade is necessary to restore structural, performance, and safety margins for the aircrews. An airframe structural modification will address structural failures due to high intensity, high gross weight operations, and a decade of battle damage. A main/tail rotor drive train and engine control replacement effort will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade (NDI/COTS) will replace obsolescent components and provide basic situational awareness. This upgrade is critical to keep a 1960's vintage aircraft in the fight until a suitable replacement aircraft is available, estimated to be in the 2025 timeframe.

• MH-60 SOF Modernization program provides for the systems engineering and platform integration efforts, to include continued flight and qualification testing and test support.

• Degraded Visual Environment (DVE) solution will fuse information from currently fielded aircraft sensors with emerging technology to display real-time reference points, obstacles, and landing zone information to the aviator. The DVE solution will provide MH-47/60 aircrews with visual cues for obstacle avoidance and aircraft control during all phases of flight and significantly increase crew and passenger survivability in DVE such as dirt and snow. Additional funding is provided to begin software development.

• Future Vertical Lift (FVL) program provides for the long-term replacement of an aging fleet of aircraft and provides a significant increase in range, speed, payload, survivability, reliability, and maintainability of vertical lift aircraft to meet emerging mission requirements. USSOCOM will participate in the Service Common development of a joint future vertical lift aircraft by injecting USSOCOM requirements and equities into the initial development and design efforts to minimize SOF-peculiar modifications to the common aircraft. This is a new start in FY 2014

Exhibit R-2A, RDT&E Project Justif	ication: PB	2014 United	States Spe	cial Operatio	ns Commar	d			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVIT 0400: Research, Development, Test & BA 7: Operational Systems Developm	& Evaluation, nent			PE 11	EM NOMEN 60403BB: S	O Aviation S			otary Wing		
 Infrared Countermeasure (IRCM) develop, integrate, qualify, and test tactical aircraft in the U.S. Army inver- 	a complete l	ightweight IF	RCM system	n to include a	missile war	ning system	and expend				
B. Accomplishments/Planned Prog	rams (\$ in N	<u>lillions)</u>						I	FY 2012	FY 2013	FY 2014
Title: A/MH-6M Block 3.0 Upgrade									0.000	0.000	12.832
<i>FY 2014 Plans:</i> Continues to development of cockpit	upgrades, in	proved roto	r systems, a	and upgrades	s to airframe						
Title: MH-60 SOF Modernization Pro	gram								0.000	0.000	1.251
FY 2014 Plans: Initiates development of an improved	tail rotor for	the MH-60N	1 aircraft to i	ncrease tacti	ical maneuv	erability.					
Title: Degraded Visual Environment (DVE)								0.000	0.000	11.809
FY 2014 Plans: Continues development of DVE sense	or solution.										
<i>Title:</i> Future Vertical Lift (FVL)									0.000	0.000	1.000
FY 2014 Plans: FY 2014 new start program. Begins to and participate in the Analysis of Alte						able to SOF	- Aviation pla	atforms			
Title: Infrared Countermeasures (IRC	SM)								0.000	0.000	1.500
<i>FY 2014 Plans:</i> FY 2014 new start program. Begins d System and expendables dispenser of			ight infrared	countermea	sure system	to include a	Missile War	ning			
				Accon	nplishment	s/Planned P	Programs Su	ubtotals	0.000	0.000	28.392
C. Other Program Funding Summa	ry (\$ in Milli	ons <u>)</u>	FY 2014	FY 2014	FY 2014					Cost To	
Line Item • PROC2: ROTARY WING UPGRADES AND SUSTAINMENT Bemarke	<u>FY 2012</u>	<u>FY 2013</u>	Base 112.456	000	<u>Total</u> 112.456	<u>FY 2015</u> 102.650	FY 2016 161.432	FY 2017 197.954		 <u>Complete</u> Continuing 	Total Cos
Remarks											

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	Operations Command	DATE: April 2013
	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems	PROJECT D615: <i>Rotary Wing Aviation</i>

D. Acquisition Strategy

• A/MH-6M Block 3.0 Upgrade is comprised of three major efforts: comprised of three major efforts: airframe/rotors, engine control, and cockpit. The airframe/ rotors development effort will be a sole source contract to Boeing, who owns the technical data associated with the A/MH-6 airframe. The engine control work will be performed by Rolls-Royce and Goodrich Power and Engine Control (GPEC) under subcontract to Boeing. As part of the airframe upgrade, the main and tail rotor blades are being replaced with one of several blades available off-the-shelf through a competitive evaluation. The cockpit avionics architecture will be developed by Rockwell-Collins, with the intent to leverage the Common Avionics Architecture System (CAAS) source code to the extent possible. Any new hardware components will be NDI/COTS and will be competitively selected. The production software effort will be a FFP contract. Airframe modification and integration work will be conducted at the Special Operations Forces Support Activity (SOFSA) by the incumbent contractor.

• MH-60M SOF Modernization Program - This supports the Systems Integration and Qualification efforts on the prototype MH-60M helicopter. This includes, but is not limited to, government and contractor flight test support, engineering analysis, documentation, and airworthiness substantiation. There are no proprietary considerations that may direct some efforts to the original equipment manufacturer.

• DVE - This effort integrates and qualifies a solution to address a safety of flight issue while flying in degraded visual environments. A competitive source selection process will be conducted for the DVE solution to the extent possible while capitalizing on Science and Technology initiatives and other Service DVE investments. Proprietary considerations may direct some efforts to the original equipment manufacturer. Additional funds will be employed to begin the development of the software/ firmware for the Synthetic Vision Backbone which uses Digital Terrain Elevation Data or High Resolution digital elevation maps, Threat Data, and Blue Force Tracker. This is combined with Q2 Electro-Optic Sighting System overlay and Silent Knight Radar or DVE sensors (not yet defined) to provide a synthetic vision scene to aid the aircrew in degraded visual environments. The Synthetic Vision Backbone is sensor agnostic, maximizing the use of a priori data with sensors used for change detection.

• Future Vertical Lift (FVL) - New start in FY2014. This effort is the SOF aviation participation in the Joint FVL effort to develop the next generation of vertical takeoff and landing (VTOL) aircraft and establishes the foundation for the transformation of the Department of Defense (DoD) vertical lift Aviation capabilities over the next 40 years.

• Infrared Countermeasures (IRCM) - New Start in FY2014. This program will be a competitive source selection effort that develops, integrates, and qualifies a mission configurable Missile Warning System (MWS) and IRCM capability which does not currently exist at a weight suitable for the A/MH-6 Mission Enhanced Little Bird (MELB). Special operations aviation requires the addition of IRCM to protect against increasingly proliferated and sophisticated infrared-guided weapons.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-	Wide			-	SO Aviat	IRE ion Syster	ns	PROJE D615: <i>F</i>	CT Rotary Wir	ng Aviatio	n	
Product Developmer	nt (\$ in Mi	illions)		FY 2	2012	FY 2	013		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 Complete	Total Cost	Target Value of Contract
A/MH-6M Block 3.0 Upgrades	C/Various	PM MELB:Ft. Eustis, VA.	-	-		-		12.832	Mar 2014	-		12.832	Continuing	Continuing	
DVE	C/Various	PM TAPO:Ft. Eustis, VA.	-	-		-		11.809	Jan 2014	-		11.809	Continuing	Continuing	
FVL	C/Various	PEO-RW: MacDill AFB, FL	-	-		-		1.000	Jan 2014	-		1.000	Continuing	Continuing	
IRCM	C/Various	PM TAPO:Ft. Eustis, VA.	-	-		-		1.500	Jan 2014	-		1.500	Continuing	Continuing	
		Subtotal	0.000	0.000		0.000		27.141		0.000		27.141			
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	013		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 Complete	Total Cost	Target Value of Contract
MH-60 SOF Modernization Program	C/Various	Various:Various	-	-		-		1.251	Jan 2014	-		1.251	0.000	1.251	
		Subtotal	0.000	0.000		0.000		1.251		0.000		1.251	0.000	1.251	
			All Prior Years	FY 2	2012	FY 2	013		2014 ase		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.000		0.000		28.392		0.000		28.392			

Remarks

nite	ed (Sta	tes	Spe	ecia	al O	pe	rati	ons	Co	mm	nano	ł												DA	TE:	Ap	ril 20	013	3		
Def	ens	e-l	Nid	le														rstei	ms						ary V	Ving	<i>י א</i> י	viati	ion			
	F١	12	012	2		F١	Y 2	013	3		F١	Y 20)14			FY	201	5		F`	Y 2	016	;		FY	201	7		ŀ	=Y 2	2018	\$
1		2	3	4	1		2	3	4	1		2	3	4	1	2	3	4	ŀ	1 :	2	3	4	1	2	3	4	4	1	2	3	4
		Defens F)efense-I	Defense-Wia FY 2012	Defense-Wide FY 2012	Defense-Wide	Defense-Wide FY 2012 F	Defense-Wide FY 2012 FY 2	Defense-Wide FY 2012 FY 2013	Pefense-Wide R-1 PE FY 2012 FY 2013	Pefense-Wide R-1 ITE PE 116 PE 116 FY 2012 FY 2013	Pefense-Wide R-1 ITEM PE 11604 FY 2012 FY 2013	R-1 ITEM NO PE 1160403B FY 2012 FY 2013 FY 2013 FY 20	Defense-Wide PE 1160403BB: S FY 2012 FY 2013 FY 2014	Pefense-Wide R-1 ITEM NOMENCL PE 1160403BB: SO A FY 2012 FY 2013 FY 2014	R-1 ITEM NOMENCLAT PE 1160403BB: SO AviaFY 2012FY 2013FY 2013FY 2014	Pefense-Wide R-1 ITEM NOMENCLATURI PE 1160403BB: SO Aviation FY 2012 FY 2013 FY 2014 FY 2014	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SyFY 2012FY 2013FY 2014FY 201	Pefense-Wide R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation System FY 2012 FY 2013 FY 2014 FY 2015	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems FY 2012 FY 2013 FY 2014 FY 2015	Pefense-Wide R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation Systems FY 2012 FY 2013 FY 2014 FY 2015 F	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SystemsFY 2012FY 2013FY 2014FY 2015FY 2	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SystemsPR D67FY 2012FY 2013FY 2014FY 2015FY 2016	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SystemsPROJE D615: IFY 2012FY 2013FY 2014FY 2015FY 2016	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rota FY 2012 FY 2013 FY 2014 FY 2015 FY 2016	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SystemsPROJECT D615: Rotary WFY 2012FY 2013FY 2014FY 2015FY 2016FY	R-1 ITEM NOMENCLATURE PE 1160403BB: SO Aviation SystemsPROJECT D615: Rotary WingFY 2012FY 2013FY 2014FY 2015FY 2016FY 201	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rotary Wing Aviation Systems FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rotary Wing Aviation FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rotary Wing Aviation FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 F	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rotary Wing Aviation FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2	R-1 ITEM NOMENCLATURE PROJECT Defense-Wide PE 1160403BB: SO Aviation Systems D615: Rotary Wing Aviation FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018

Exhibit R-4A, RDT&E Schedule Details: 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 1160403BB: SO Aviation Systems	PROJECT D615: <i>Rotary Wing Aviation</i>							

Schedule Details

	Sta	Er	nd	
Events	Quarter	Year	Quarter	Year
A/MH-6M Block 3.0 Development/Qualification/Testing	2	2012	2	2017
MH-47G Low Cost Mods Qualification/Testing	1	2015	4	2017
MH-60 SOF Modernization Program Qualification/Testing Block 1	1	2014	4	2016
DVE	4	2013	4	2016
FVL	1	2014	4	2018
IRCM	1	2014	4	2016

Exhibit R-2, RDT&E Budget It	em Justificat	ion: PB 20	14 United S	tates Speci	al Operation	ns Comman	d			DATE: Apr	il 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 1160404BB: Special Operations 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		
Total Program Element	22.375	0.622	0.821	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.818		
S710: SO Tactical Systems (Automation)	22.375	0.622	0.821	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.818		

[#] 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 FY2014, this Program Element (PE) 1160404BB, Special Operations Tactical Systems Development 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 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.799	0.821	0.834	-	0.834
Current President's Budget	0.622	0.821	0.000	-	0.000
Total Adjustments	-0.177	0.000	-0.834	-	-0.834
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.156	-			
SBIR/STTR Transfer	-0.021	-			
Other Adjustments	-	-	-0.834	-	-0.834
Change Summary Explanation					
Funding:					
DE 1160404PP: Special Operations Testical Systems Davad	nmont LING				
PE 1160404BB: Special Operations Tactical Systems Develo					100

United States Special Operations Command

109

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013						
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160404BB: Special Operations Tactical Systems Development							
FY 2012: Decrease of \$0.177 million due to reprogramming to h Research (-\$0.021 million).	igher command priorities (-\$0.156 million) and a t	transfer of funds to Small Business Innovative						
FY2013: None.								
FY 2014: Decease of \$0.834 million is due to beginning in FY20	14, this Program Element (PE) 1160404BB has b	peen consolidated into SOCOM PE 1160431E						
Schedule: None.								
Technical: None.								

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 U	Inited State	s Special C	perations C	ommand				DATE: Ap	oril 2013	
PPROPRIATION/BUDGET AC		tion Dofor	aa Wida						PROJEC		stems (Auto	motion
0400: Research, Development, T BA 7: Operational Systems Deve		lion, Deien	se-wide			evelopment	,	ns Taclicai	5/10.30	ractical Sy	stems (Auto	malion)
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: SO Tactical Systems (Automation)	22.375	0.622	0.821	0.000	-	0.000	0.000	0.000	0.00	0.00	0.000	23.81
Quantity of RDT&E Articles												
		vill normit a	mall highly	trained for	ces to cond	uct required	operations	across the	entire spe	ctrum of co	nflict. These	
 (SOF). Specialized automation operations are generally conduct air to conduct unconventional water forces. The requirement to operation success. The Tactical Local Area Network capabilities to support situation 	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness	environme t action, or d areas co l) provides	ents, for uns deep recon ntrolled by a SOF operat	pecified pe naissance a sophistica tional comm	eriods and in operations i ated threat n nanders and	locations re n denied are nandates the l forward de	eas against at SOF syst	insurgent u ems remain es advance	nits, terro technolo d automa	rists, or high gically supe ted data pro	trate by land ly sophistica rior to threat cessing and	ated threat forces to display
 operations are generally conductive air to conduct unconventional weather forces. The requirement to operative mission success. The Tactical Local Area Network capabilities to support situation kits and field computing device 	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s.	environme t action, or d areas co l) provides s, mission p	ents, for uns deep recon ntrolled by a SOF operat	pecified pe naissance a sophistica tional comm	eriods and in operations i ated threat n nanders and	locations re n denied are nandates the l forward de	eas against at SOF syst	insurgent u ems remain es advance	nits, terro n technolo d automa gram con	rists, or high gically supe red data pro sists of suite	trate by lanc ly sophistica rior to threat cessing and es, mission p	ated threat forces to display lanning
 operations are generally conduct air to conduct unconventional we forces. The requirement to operation success. The Tactical Local Area Network capabilities to support situation kits and field computing device B. Accomplishments/Planned 	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s.	environme t action, or d areas co l) provides s, mission p	ents, for uns deep recon ntrolled by a SOF operat	pecified pe naissance a sophistica tional comm	eriods and in operations i ated threat n nanders and	locations re n denied are nandates the l forward de	eas against at SOF syst	insurgent u ems remain es advance	nits, terro n technolo d automa gram con	rists, or high gically supe red data pro sists of suite Y 2012	trate by land ly sophistica rior to threat cessing and	display olanning
 operations are generally conductive air to conduct unconventional weather forces. The requirement to operative mission success. The Tactical Local Area Network capabilities to support situation kits and field computing device 	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s. Programs (\$ at rest and th ration of evo	environme t action, or d areas co I) provides s, mission p <u>in Million</u> in client teo utionary te	ents, for uns deep recon ntrolled by a SOF operat planning and s) chnology. chnology in:	pecified pe naissance a sophistica tional comm l execution	eriods and in operations i ated threat n nanders and , and comm	locations re n denied are nandates that forward de and and con	eas against at SOF syst	insurgent u æms remair es advance es. The pro	nits, terro n technolo d automa gram con F	rists, or high gically supe red data pro sists of suite	trate by land ly sophistica rior to threat cessing and es, mission p FY 2013	display olanning
 operations are generally conduct air to conduct unconventional we forces. The requirement to operation success. The Tactical Local Area Network capabilities to support situation kits and field computing devices B. Accomplishments/Planned <i>Title:</i> TACLAN Suites <i>FY 2012 Accomplishments:</i> Continued development of data and the second secon	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s. Programs (\$ at rest and th ration of evo	environme t action, or d areas co I) provides s, mission p <u>in Million</u> in client teo utionary te	ents, for uns deep recon ntrolled by a SOF operat planning and s) chnology. chnology in:	pecified pe naissance a sophistica tional comm l execution	riods and in operations i ated threat n nanders and , and comm	locations re n denied are nandates the d forward de and and con	eas against at SOF syst ployed force ntrol of force t, thin client	insurgent u æms remair es advance es. The pro	nits, terro n technolo d automa gram con F	rists, or high gically supe red data pro sists of suite Y 2012	trate by land ly sophistica rior to threat cessing and es, mission p FY 2013	display display lanning FY 2014 0.000
 operations are generally conduct air to conduct unconventional we forces. The requirement to operation success. The Tactical Local Area Network capabilities to support situation kits and field computing devices B. Accomplishments/Planned <i>Title:</i> TACLAN Suites <i>FY 2012 Accomplishments:</i> Continued development of data and the second secon	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s. Programs (\$ at rest and th ration of evo blogies, FMV	environme t action, or d areas co l) provides , mission p <u>in Millions</u> in client teo utionary te , cross don	ents, for uns deep recon ntrolled by a SOF operat planning and s) chnology. chnology in:	pecified pe naissance a sophistica tional comm l execution	riods and in operations i ated threat n nanders and , and comm	locations re n denied are nandates the d forward de and and con	eas against at SOF syst ployed force ntrol of force t, thin client	insurgent u ems remain es advance es. The pro	nits, terro n technolo d automa gram con F	rists, or high gically supe red data pro sists of suite Y 2012 0.622	trate by land ly sophistica rior to threat cessing and es, mission p FY 2013 0.821	ted threat forces to display lanning
 operations are generally condulative to conduct unconventional weights for the requirement to operations. The Tactical Local Area Network capabilities to support situation kits and field computing devices B. Accomplishments/Planned Title: TACLAN Suites FY 2012 Accomplishments: Continued development of data and field situation of the second structure of the s	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s. Programs (\$ at rest and th ration of evol ologies, FMV	environme t action, or d areas co I) provides s, mission p <u>in Millions</u> in client teo utionary te , cross don <u>Millions)</u>	ents, for uns deep recon ntrolled by a SOF operational software and the software blanning and blanning and bl	pecified pe naissance a sophistica tional comm l execution sertions (E sertions (E sertions (E	TIs) such as Accomplis	locations re n denied are handates that forward de and and con data at res hments/Pla	t, thin client	insurgent u ems remain es advance es. The pro capabilities grams Subt	nits, terro n technolo d automa gram con F	rists, or high gically supe red data pro sists of suite Y 2012 0.622 0.622	trate by land ly sophistica rior to threat cessing and s, mission p FY 2013 0.821 0.821 0.821	ated threat forces to display lanning FY 2014 0.000
 operations are generally condutair to conduct unconventional ware forces. The requirement to operation success. The Tactical Local Area Network capabilities to support situation kits and field computing device B. Accomplishments/Planned Title: TACLAN Suites FY 2012 Accomplishments: Continued development of data for the support and integration wireless/PDA/smartphone techn 	cted in harsh varfare, direc erate in denie ork (TACLAN al awareness s. Programs (\$ at rest and th ration of evo blogies, FMV	environme t action, or d areas co I) provides , mission p <u>in Millions</u> in client teo utionary te , cross don <u>Millions)</u> 12 FY 2	ents, for uns deep recon ntrolled by a SOF operational software and the software blanning and blanning and bl	pecified pe naissance a sophistica tional comm l execution sertions (E sertions (E sertions (E	riods and in operations i ated threat n nanders and , and comm TIs) such as Accomplis	locations re n denied are handates that forward de and and con data at res hments/Pla	t, thin client	insurgent u ems remain es advance es. The pro capabilities grams Subt	nits, terro n technolo d automa gram con F	rists, or high gically supe red data pro sists of suite Y 2012 0.622 0.622	trate by land ly sophistica rior to threat cessing and s, mission p FY 2013 0.821 0.821	ated threat forces to display lanning FY 2014 0.000

PE 1160404BB: Special Operations Tactical Systems Development United States Special Operations Command

111

Exhibit R-2A, RDT&E Project	xhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve	Test & Evaluation,	Defense-W	ide	PE 11	EM NOMEN 60404BB: S ns Developr	pecial Opera	ntions Tactical	PROJECT S710: SO	-	ystems (Automatior	n)
C. Other Program Funding Su	mmary (\$ in Milli	ons <u>)</u>									
Line Item	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	FY 2014 Total	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> Complete Total	Cost

<u>Remarks</u>

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-3, RDT&E F	Project Co	ost Analysis: PB 2	2014 Unite	d States	Special C	Operation	is Comma	ind				DATE	: April 20	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst	lopment,	Test & Evaluation,	Defense-\	Nide		PE 116	M NOME 0404BB: s Develop	Special C		s Tactical	PROJE S710: S		l Systems	s (Automa	ation)
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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	22.375	0.622	Dec 2012	0.821	Jun 2013	-		-		-	Continuing	Continuing	
		Subtotal	22.375	0.622		0.821		0.000		0.000		0.000			
			All Prior Years	FY	2012	FY 2	2013	FY 2 Ba		FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	22.375	0.622		0.821		0.000		0.000		0.000			

Remarks

THIS PAGE INTENTIONALLY LEFT BLANK

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command										DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems Developmen							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
Total Program Element								4.822	4.928	5.029	Continuing	Continuin	
S400: SO Intelligence Systems	494.843	27.916	25.935	7.705	-	7.705	7.769	4.822	4.928	5.029	Continuing	Continuin	

[#] 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 program element provides for the identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. USSOCOM has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems continue to provide SOF with the required capabilities into the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning 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 with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	27.916	25.935	4.607	-	4.607
Current President's Budget	27.916	25.935	7.705	-	7.705
Total Adjustments	0.000	0.000	3.098	-	3.098
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Other adjustments.	-	-	3.098	-	3.098

Change Summary Explanation

Funding:

FY 2012: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160405BB: Special Operations Inte	elligence Systems Development
A 7: Operational Systems Development		
FY 2013: None.		
FY 2014: Increase of \$3.098 million supports Joint Threat Warni Special Operations Tactical Video System equipment integration,		on variant operational testing (\$2.731 million) a
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 U	Inited State	s Special C	perations C	ommand				DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide		R-1 ITEM I PE 116040 Intelligence	5BB: Speci	ial Operatio		PROJECT S400: SO	Intelligence	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
S400: SO Intelligence Systems	494.843	27.916	25.935	7.705	-	7.705	7.769	4.822	4.928	5.029	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 identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. The systems developed and tested in this line item are National Systems Support to SOF (NSSS); Joint Threat Warning System (JTWS); Special Operations Tactical Video System (SOTVS).

U.S. Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems continue to provide SOF with the required capabilities throughout the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning 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 with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments. The intelligence programs funded in this project will meet annual emergent requirements and are grouped by the level of organizational element they support: Operational Element (Team) and Above Operational Element (Garrison).

OPERATIONAL ELEMENT (TEAM)

 NSSS. This program provides a research and development rapid prototyping capability which functions as HQ SOCOM's Tactical Exploitation of National Capabilities program. NSSS improves the combat effectiveness of USSOCOM, its components, and the Theater Special Operations Commands by leveraging National Agency and Service development efforts to provide innovative space-based intelligence systems technologies and enhancements, products and special communications capabilities to tactical SOF units, to include field-deployed signal intelligence (SIGINT) and communications systems such as the Firefly SIGINT and Rapid Reliable Targeting (RRT) geo-location payload and future Friendly Force Trackers (FFT). Similarly, the Enhanced Software-Defined Radio Tag effort will provide a unique, mission-relevant and globally flexible field device which will provide tactical forces the ability to clandestinely tag and persistently track almost any target, using multiple National Theater and Tactical collection platforms.

• JTWS. This program is an evolutionary acquisition (EA) effort that provides threat warning, force protection, enhanced situational awareness, and target identification/acquisition information to SOF via signal intercept, direction finding and SIGINT. JTWS will employ continuing technology updates to address the changing threat environment. SOF SIGINT operators are globally deployed and fully embedded within Special Operations teams and aircrews in every operational environment. This state-of-the-art technology enables SOF operators to provide critical time-sensitive targeting and actionable intelligence to the operational

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	perations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160405BB: Special Operations	S400: SO /	Intelligence Systems
BA 7: Operational Systems Development	Intelligence Systems Development		

commander during mission execution. Intelligence derived from operations supports campaign objectives and the National Military Strategy. This system has variants that utilize common technologies and interfaces allowing operators to task, organize, and scale equipment based on anticipated signal environments and areas of operation. Variants will be modular; lightweight with minimal power requirements; and configurable to support body worn/mobile or static, air, maritime and precision geo-location operations in support of all SOF missions. Each variant, except static, will be capable of operation by a single trained operator. The four variants are Ground SIGINT Kit (GSK) Bodyworn/Mobile and Team Transportable (GSK static), Air, Maritime, and Precision Geo-Location (Ground and Air).

• SOTVS. This program employs an evolutionary strategy to meet SOF reconnaissance and surveillance mission requirements. The program consists of a family of interoperable digital commercial-off-the-shelf systems to capture and transfer near-real time day/night tactical ground imagery utilizing SOF organic radios and global C4I infrastructure. The program provides the capability to forward imagery in near-real time via current or future communication systems (i.e., land-line, High Frequency, Very High Frequency, and Satellite Communications radios) in support of surveillance and reconnaissance missions. This man-packable tactical system consists of digital still cameras, camcorders, ruggedized laptop computers with image manipulation software and data controller. This program is a FY 2014 new start.

ABOVE OPERATIONAL ELEMENT (GARRISON)

• Counter-Proliferation Analysis and Planning Systems (CAPS). Department of Defense (DoD) has a planning mission for counter-proliferation (CP) contingency operations. CAPS has been identified by the Office of the Secretary of Defense (OSD) as the standard CP planning tool set for DoD, and the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Defense Program has consolidated RDT&E funding at USSOCOM for overall program management. U.S. Strategic Command serves as the coordinator for CAPS requirements. The Defense Threat Reduction Agency provides science and technology expertise and integration support to enhance CAPS capabilities. CAPS provides tools and assessments to DoD and SOF mission planners to aid in worldwide identification and analysis of suspected weapons of mass destruction and potential targets; assesses the associated effectiveness, costs and risks of various CP options and their collateral effects; and develops alternative plans. CAPS is a primary source of CP mission planning information for Combatant Commanders who are the principal customers. CAPS requires ongoing development, integration and testing of leading edge technology for operational planning and processes in order to provide the best possible engineering analysis and to support consequence engineering to meet changing threats. CAPS program funding and responsibility transfers to the Defense Intelligence Agency (DIA) for consolidation and interface with DIA's Counter Weapons of Mass Destruction Analysis Cell beginning in FY 2014.

• Special Operations Command Research and Threat Evaluation System (SOCRATES). This program is an umbrella program that acquires and supports the network and computing infrastructure for SOF intelligence information up to and including the Top Secret, Sensitive Compartmented Information (TS/SCI) level. SOCRATES integrates intelligence information from national, theater, Service and SOF-specific databases; provides news service and message traffic; automated imagery processing, dissemination, and archival; analyst-to-analyst electronic mail and collaborative tools; web interfaces/search capabilities and browse-down capability to Secret web servers; and secure voice and facsimile. It provides a seamless and interoperable interface enabling SOF-unique intelligence support to mission planning and intelligence preparation of the battle space.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: NSSS	0.756	0.783	0.795
FY 2012 Accomplishments:			

PE 1160405BB: *Special Operations Intelligence Systems Developmen...* United States Special Operations Command

118

FY 2012 Accomplishments: Continued networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation.Image: Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.Image: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.O.000O.000O.000FY 2014 Plans: Degin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized0.0000.0000.36	Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special	Operations Command	DATE:	April 2013	
Developed SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful as Blue Force Tracking, especially in system-challenged environments. Image: Control of the system of the s	0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160405BB: Special Operations		nce Systems	
NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will negative capabilities, expendially in system-challenged environments. Image: Control of the successful capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities, expensionally in system-challenged environments. Image: Control of the successful capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities, expensionally in system-challenged environments. Image: Control of the successful capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities, primarily through leveraging, Tracking, and higher-accuracy Geolocating hostile forces, as well as, Friendly Force Tracking (FFT), especially in system-challenged environments. FY 2014 Plans: Develop SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as, Friendly Force Tracking (FTT), especially in system-challenged environments. FY 2014 Plans: Continue networking and testing within the JTWS Family of Syste	B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Develops SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as, Friendly Force Tracking (FFT), especially in system-challenged environments.Second for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as, Friendly Force Tracking (FFT), especially in system-challenged environments.3.8173.7586.54 7Y 2014 Accomplishments: Continued networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation.3.8173.7586.54 FY 2014 Plans: Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and automation.5444 FY 2014 Plans: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.0.0000.0000.36 FY 2014 Plans: Continue networking and testing within the JTWS Family of Systems for technology insertions of improved/downsized0.0000.0000.36 FY 2014 Plans: Begin integration/operational testing within the SOTVS Family of Systems for technology insertion	NIC, while coordinating with other SOCOM and NIC Programs of Record for capabilities. Emphasis areas included ISR support for Tagging, Tracking, an	production and operational fielding of the success	ul		
Develop SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as, Friendly Force Tracking (FFT), especially in system-challenged environments.3.8173.8173.7586.54 FY 2012 Accomplishments: Continue networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation.FY 2013 Plans: Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.0.0000.0000.366FY 2014 Plans: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.0.0000.0000.366FY 2014 Plans: Begin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized0.0000.0000.366	Develops SOF-required prototype capabilities, primarily through leveraging c NIC, while coordinating with other SOCOM and NIC Programs of Record for capabilities. Emphasis areas will include ISR support for Tagging, Tracking,	production and operational fielding of the success	ul		
FY 2012 Accomplishments: Continued networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation.Image: Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.Image: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.O.000O.000O.000FY 2014 Plans: Degin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized0.0000.0000.36	Develop SOF-required prototype capabilities, primarily through leveraging cu NIC, while coordinating with other SOCOM and NIC Programs of Record for capabilities. Emphasis areas will include ISR support for Tagging, Tracking,	production and operational fielding of the success and higher-accuracy Geolocating hostile forces, a	ul		
Continued networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation.FY 2013 Plans: Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.FY 2014 Plans: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.O.000O.000O.000Title: SOTVS0.0000.0000.366FY 2014 Plans: Begin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized0.0000.000	Title: JTWS		3.817	3.758	6.543
Continue networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.Image: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.Image: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.Image: Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Maritime prototype development.Image: Continue networking and testing within the STWS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsizedImage: Continue networking and testing within the SOTVS F	Continued networking and testing within the JTWS Family of Systems and im		vir		
Continue networking and testing within the JTWS Family of Systems and continue spiral development for all variants. Start JTWS Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized Image: Continue networking and testing within the SOTVS Family of Systems for technology insertions of improved/downsized	Continue networking and testing within the JTWS Family of Systems and imp downsized hardware/software configuration on all variants. Continue develop				
FY 2014 Plans: Begin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized	Continue networking and testing within the JTWS Family of Systems and cor	ntinue spiral development for all variants. Start JT	ws		
Begin integration/operational testing within the SOTVS Family of Systems for technology insertions of improved/downsized	Title: SOTVS		0.000	0.000	0.367
		r technology insertions of improved/downsized			
Title: CAPS 21.230 21.394 0.00	Title: CAPS		21.230	21.394	0.000

PE 1160405BB: *Special Operations Intelligence Systems Developmen...* United States Special Operations Command

119

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	States Spe	cial Operatio	ons Comman	d			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation,	Defense-W	lide	PE 11	EM NOMEN 60405BB: S gence Syster	pecial Opera		PROJ I S400:		ice Systems	
B. Accomplishments/Planned Pro	grams (\$ in N	<u>/lillions)</u>						Γ	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Completed Spiral 11 and began Spi interfaces for product dissemination						cal process	tools, and ne	etwork			
FY 2013 Plans: Complete Spiral 12 and begin Spiral interfaces for product dissemination						al process to	ols, and netv	vork			
Title: SOCRATES									2.113	0.000	0.000
FY 2012 Accomplishments: Continued to integrate SIDMS to the to support net-centric data sharing v Operations Forces (DCGS-SOF). include advanced data automation; Java-compliant machine language t	vith USSOCO Developed, in testing of tech	M partners u tegrated and iniques for ir	using the Dis d tested tech ntegrating m	stributed Con nology upgr etadata into	nmon Groun ades and ex existing SOF	d/Surface S perimental te data repos	ystem-Specia echnologies itories; devel	al to			
				Accon	nplishment	s/Planned P	rograms Su	btotals	27.916	25.935	7.705
C. Other Program Funding Summ	ary (\$ in Milli	<u>ons)</u>									
Line Item • PROC1: Intelligence Systems <u>Remarks</u>	FY 2012 129.458	<u>FY 2013</u> 101.956	<u>FY 2014</u> <u>Base</u> 79.819	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u> 79.819	<u>FY 2015</u> 89.720	<u>FY 2016</u> 93.616	<u>FY 201</u> 96.31			<u>Total Cost</u> Continuing

D. Acquisition Strategy

• NSSS is a project to introduce and integrate national systems capabilities into the SOF force structure and operations. This is accomplished by partnering with existing National Intelligence Community programs of record to incorporate SOF mission requirements into current and developing technologies and assets. This leveraging of funding increases national and commercial systems awareness, demonstrates the tactical utility of national systems and commercial data, tests technologies and evaluates operational concepts in biennial Joint Staff Special Projects, and allows for the transition of promising concepts and technologies to other SOF program office for execution.

• JTWS is a fielded program that employs an evolutionary strategy to provide upgraded next generation technology insertions and to address the changing threat environment for all air, ground, maritime and precision geo-location variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational test and acceptance support.

UNCLASSIFIED

Page 6 of 12

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Specia	I Operations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	Г
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160405BB: Special Operations	S400: SO	Intelligence Systems
BA 7: Operational Systems Development	Intelligence Systems Development		

• SOTVS is a fielded program that employs an evolutionary strategy to incorporate the latest state of technology within its product line to provide upgraded nextgeneration technology insertion of commercial-off-the-shelf systems and address the changing threat environment to meet SOF reconnaissance and surveillance mission requirements. Commercial and government agency sources will be leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

• CAPS is an long-term, strategic program of record with Lawrence Livermore National Laboratory to research, develop, produce and disseminate mission-tailored engineering assessments of foreign WMD capabilities. CAPS performs spiral development of leading edge technologies for military operational planning to meet emerging threats. CAPS program funding and responsibility transfers to the Defense Intelligence Agency beginning in FY14.

E. Performance Metrics

N/A

APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst	DGET A	Test & Evaluation,				R-1 ITE PE 116		NCLATU Special C	Operations		PROJE S400: S		: April 20 ence Sys		
Product Developmen	t (\$ in M	illions)		FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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
National Systems Support to SOF	MIPR	Various:Various	13.348	0.409	Nov 2011	0.429	Dec 2012	0.535	Dec 2013	-		0.535	Continuing	Continuing	
Joint Threat Warning System (JTWS)-Air Increment 2	MIPR	SPAWAR:Charleston, SC	2.990	0.915	Nov 2011	0.705	Nov 2012	0.600	Nov 2013	-		0.600	Continuing	Continuing	
JTWS-Team Transportable - Ground Signal Intelligence Kit (GSK) Static	Reqn	Various:Various	9.314	0.147	Apr 2012	0.270	Nov 2012	-		-		-	Continuing	Continuing	
JTWS-GSK, Inc 2	Reqn	Various:Various	15.964	1.092	Apr 2012	1.233	May 2013	0.775	Nov 2013	-		0.775	Continuing	Continuing	
JTWS-Maritime	Reqn	Various:Various	0.198	0.450	Jun 2012	0.454	Nov 2012	3.320	Nov 2013	-		3.320	Continuing	Continuing	
JTWS-Martime Naval Post Graduate School	MIPR	NPS:Monterey, CA	-	0.125	Feb 2012	-		0.130	Jan 2014	-		0.130	Continuing	Continuing	
JTWS-NSA Intern Support	MIPR	NSA:FT Meade, MD	0.100	0.100	Mar 2012	0.100	Apr 2013	0.100	Apr 2014	-		0.100	Continuing	Continuing	
JTWS-All Variants	Reqn	Various:Various	-	-		-		0.818	Nov 2013	-		0.818	Continuing	Continuing	
Counter-Proliferation Analysis and Planning System	MIPR	Lawrence Livermore National Labs:Livermore, CA	133.582	20.501	Nov 2011	20.757	Nov 2012	-		-		-	0.000	174.840	
Special Operations Command Research, Analysis, and Threat Evaluation System	SS/FFP	Pragmatics:Tampa, FL	-	1.142	Oct 2011	-		-		-		-	0.000	1.142	
Special Operations Command Research, Analysis, and Threat Evaluation System	MIPR	Various:Various	-	0.698		-		-		-		-	0.000	0.698	
Prior Year Funding - Completed Efforts	Various	Various:Various	277.019	-		-		-		-		-	0.000	277.019	
		Subtotal	452.515	25.579		23.948		6.278		0.000		6.278			

APPROPRIATION/BL 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-I	Wide		PE 116	M NOME 0405BB: sence Syste	Special C	Operations		PROJE S400: S		ence Syst	ems	
Support (\$ in Million	s)		ſ	FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC		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
CAPS Support	MIPR	Lawrence Livermore National Labs:Livermore CA	5.127	0.729	Nov 2011	0.637	Nov 2012	-		-		-	0.000	6.493	
	_	Subtotal	5.127	0.729		0.637		0.000		0.000		0.000	0.000	6.493	
Test and Evaluation	(\$ in Milli	ions)	[FY 2	0042	EV	2013		2014 Ise	FY 2 OC		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
Joint Threat Warning System	MIPR	JITC:FT Huachuca, AZ	1.837	0.988	Jun 2012	0.996	Jun 2013	0.800	Nov 2013	-		0.800	Continuing	Continuing	
Special Operations Command Research, Analysis, and Threat Evaluation System - Independent Verification and Validation	MIPR	MITRE:Bedford, MA	0.276	0.273	Dec 2011	-		-		-		-	0.000	0.549	
Special Operations Tactical Video Systems	MIPR	JITC:FT Huachuca, AZ	-	-		-		0.367	Mar 2014	-		0.367	Continuing	Continuing	
		Subtotal	2.113	1.261		0.996		1.167		0.000		1.167			
Management Service	es (\$ in M	lillions)	[FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC		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
National Systems Support to SOF Program Support	C/CPAF	Jacobs:Tampa, FL	4.409	0.347	Oct 2011	0.354	Oct 2012	0.260	Mar 2014	-		0.260	Continuing	Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	30.679	-		-		-		-		-	0.000	30.679	
		Subtotal	35.088	0.347		0.354		0.260		0.000		0.260			

United States Special Operations Command

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	014 Unite	ed States	Special C	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, I BA 7: Operational Systems Development	Defense-	Wide		PE 116	0405BB:	ENCLATU Special C ems Deve	peration		PROJEC S400: S	•	ence Syst	ems	
	All Prior Years	FY	2012	FY 2	2013	FY 2 Ba		FY 2 OC	••••	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	494.843	27.916		25.935		7.705		0.000		7.705			

Remarks

nited	State	es S	Spe	cial	Ореі	ratio	ons C	Com	man	d											DA	Γ Ε : /	٩pril	201	3		
efer	ise-W	/ide	;			F	PE 1	160	405l	BB:	Spe	cial	0p	erati							ntell	igen	ce S	Syste	ems		
F	FY 20	12			FY 2	013			FY 2	014			FY	201	5		FY	2010	6		FY	2017	7		FY	2018	3
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				I	I					_													
																											-
-																											
																											-
																											_
	efer	efense-W FY 20	efense-Wide FY 2012	efense-Wide FY 2012	efense-Wide FY 2012	efense-Wide FY 2012 FY 2	efense-Wide FY 2012 FY 2013	efense-Wide R-1 I PE 1 Intell FY 2012 FY 2013	efense-Wide R-1 ITEN PE 1160 Intelliger FY 2012 FY 2013	efense-Wide R-1 ITEM NC PE 1160405I Intelligence S FY 2012 FY 2013 FY 2	efense-WidePE 1160405BB: Intelligence SystemFY 2012FY 2013FY 2014	efense-WideR-1 ITEM NOMENCI PE 1160405BB: Spe Intelligence SystemsFY 2012FY 2013FY 2014	R-1 ITEM NOMENCLAT PE 1160405BB: Special Intelligence Systems DeFY 2012FY 2013FY 2014	R-1 ITEM NOMENCLATUR PE 1160405BB: Special Op Intelligence Systems DeveloFY 2012FY 2013FY 2014FY	R-1 ITEM NOMENCLATUREPE 1160405BB: Special OperationIntelligence Systems DevelopmentFY 2012FY 2013FY 2014FY 2014	R-1 ITEM NOMENCLATUREPE 1160405BB: Special OperationsIntelligence Systems DevelopmentFY 2012FY 2013FY 2014FY 2015	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentFY 2012FY 2013FY 2014FY 2015	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentFY 2012FY 2013FY 2014FY 2015FY	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPR S4FY 2012FY 2013FY 2014FY 2015FY 2010	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJE S400: SFY 2012FY 2013FY 2014FY 2015FY 2016	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO IFY 2012FY 2013FY 2014FY 2015FY 2016	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO IntellFY 2012FY 2013FY 2014FY 2015FY 2016FY	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO IntelligenFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO Intelligence SFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO Intelligence SystemFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO Intelligence SystemsFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017FY 2017	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems DevelopmentPROJECT S400: SO Intelligence SystemsFY 2012FY 2013FY 2014FY 2015FY 2016FY 2017FY 2018

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Oper	ations Command		DATE: April 2013
0400: Research, Development, Test & Evaluation, Defense-Wide	R-1 ITEM NOMENCLATURE PE 1160405BB: Special Operations Intelligence Systems Development	PROJECT S400: SO	Intelligence Systems

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
Special Operations Command Research, Analysis, and Threat Evaluation				
Special Operations Command, Research, Analysis, and Threat Evaluation	1	2012	4	2012
National Systems Support to SOF Participation in Space Technology Dev and Demo			· ,	
National Systems Support to SOF Participation in Space Technology Dev and Demo	1	2012	4	2018
Counter-Proliferation Analysis and Planning System Integration	U			
Counter-Proliferation Analysis and Planning System Integration	1	2012	4	2013
Joint Threat Warning System	L			
Variant Development, Test and Eval	1	2012	4	2018
Special Operations Tactical Video System	L. L		· · · · ·	
System Integration Operational Testing	2	2014	4	2018

APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop COST (\$ in Millions) Total Program Element S500A: SOF Operational Enhancements Intelligence	t & Evaluation, Defen	se-Wide		R-1 ITEM N PE 1160408	-	-	Enhancem	ents			
Total Program Element S500A: SOF Operational	-										
S500A: SOF Operational		FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
,	- 75.010	51.700	42.620	-	42.620	75.329	68.487	59.196	61.450	Continuing	Continuin
	- 75.010	51.700	42.620	-	42.620	75.329	68.487	59.196	61.450	Continuing	Continuinç
[#] FY 2013 Program is from the FY	2013 President's Bu	dget, submit	ted Februa	iry 2012		I		·		11	
## The FY 2014 OCO Request will		-		•							
A Mission Description and Dude	- 4 4										
A. Mission Description and Budge Details provided under separate c		<u> </u>									
			FY 2012	FY 201	3 Б	Y 2014 Bas	a 6	FY 2014 OC	20	FY 2014 To	tal
B. Program Change Summary (\$ i Previous President's Budget	•		77.415	51.70		67.21		1 2014 00		67.2	
Current President's Budget	L		75.010	51.70	-	42.62			-	42.6	
Total Adjustments			-2.405	0.00	-	-24.59	-	_		-24.5	-
Congressional Ger	neral Reductions		-2.400		0	-24.00	0			21.0	
Congressional Dire			-	-							
Congressional Res			-	-							
Congressional Add			-	-							
Congressional Dire			-	-							
Reprogrammings			-2.405	-							
 SBIR/STTR Transi 	fer		-	-							
 Details provided un 	nder separate cover		-	-		-24.59	5		-	-24.5	95

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 1160421BB: Special Operations CV-22 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
Total Program Element	512.953	10.497	1.822	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	525.272
SF200: SO CV-22	512.953	10.497	1.822	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	525.272

[#] 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

<u>Note</u>

Beginning in FY2014, this Program Element has been consolidated into SOCOM Program Element 1160403BB, SO Aviation Systems.

A. Mission Description and Budget Item Justification

The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 provides long range, high speed, infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. This is a capability not currently provided by existing aircraft. The V-22 Joint Program Office is developing improved capabilities in block increments. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment was completed in FY 2007, and the Block 20 increment started in FY 2008.

Block 10: Integrate and test Directional Infrared Countermeasures, a system that protects against infrared guided missiles; design, integrate and validate the Troop Commander Situational Awareness Station to provide the embarked troop commander access to the CV-22's communication, navigation and mission management system; relocate the ALE-47 chaff and flare dispenser control head to allow any cockpit crew member to activate defensive countermeasures; add a second forward firing chaff and flare dispenser to provide an adequate quantity of consumable countermeasures for the extended duration of SOF infiltration, exfiltration, and resupply missions; and incorporate a dual access feature to the Digital Map System to allow both the pilot and co-pilot to independently access and control the digital map display from the mission computer.

Block 20: Design, integrate, test, and validate enhancements required to meet SOF-unique mission requirements and correct deficiencies identified in previous testing. This incremental development will provide improved capabilities to include, but not limited to, more robust performance in situational awareness, weapons, avionics, survivability, maneuverability, mission deployment and improved reliability and maintainability of the CV platform.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United	States Spec	cial Operations Cor	mmand	DATE	DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 1160421BB: Special Operations CV-22 Development						
3. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total			
Previous President's Budget	10.775	1.822	0.911	-	0.911			
Current President's Budget	10.497	1.822	0.000	-	0.000			
Total Adjustments	-0.278	0.000	-0.911	-	-0.911			
 Congressional General Reductions 	-	-						
 Congressional Directed Reductions 	-	-						
 Congressional Rescissions 	-	-						
 Congressional Adds 	-	-						
 Congressional Directed Transfers 	-	-						
Reprogrammings	-	-						
SBIR/STTR Transfer	-0.278	-						
 Other Adjustments 	-	-	-0.911	-	-0.911			

Change Summary Explanation

Funding:

FY 2012: Decrease of -\$0.278 million is due to a transfer of funds to Small Business Innovative Research.

FY 2013: None.

FY 2014: Decrease of \$-0.911 million due to this Program Element being consolidated into SOCOM Program Element 1160403BB beginning in FY 2014.

Schedule: None.

Technical: None.

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 NOMENCLATUREPROJECTPE 1160421BB: Special Operations CV-22SF200: SGDevelopmentSF200: SG					-			
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
SF200: SO CV-22	512.953	10.497	1.822	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	525.272
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

A. Mission Description and Budget Item Justification: The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 will provide long range, high speed infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. This is a capability not currently provided by existing aircraft. The V-22 Joint Program Office is developing improved capabilities in block increments supported with rapid prototyping. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment completed in FY 2007, and the Block 20 increment started in FY 2008.

Block 10: Integrate and test Directional Infrared Countermeasures, a system that protects against infrared guided missiles; design, integrate and validate the Troop Commander Situational Awareness Station to provide the embarked troop commander access to the CV-22's communication, navigation and mission management system; relocate the ALE-47 chaff and flare dispenser control head to allow any cockpit crew member to activate defensive countermeasures; add a second forward firing chaff and flare dispenser to provide an adequate quantity of consumable countermeasures for the extended duration of SOF infiltration, exfiltration, and resupply missions; and incorporate a dual access feature to the Digital Map System to allow both the pilot and co-pilot to independently access and control the digital map display from the mission computer.

Block 20: Design, integrate, test, and validate enhancements required to meet SOF-unique mission requirements and correct deficiencies identified in previous testing. This incremental development will provide improved capabilities to include, but not limited to, robust performance in situational awareness, weapons, avionics, survivability, maneuverability, mission deployment, improved reliability and maintainability of the CV platform.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: CV-22 Aircraft Block 20	10.497	1.822	0.000
FY 2012 Accomplishments: Continued flight test support, design, and development of Block 20.			
FY 2013 Plans: Continue ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities.			
Accomplishments/Planned Programs Subtotals	10.497	1.822	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command											DATE: April 2013		
APPROPRIATION/BUDGET ACTIVI	ТҮ			R-1 I1		CLATURE	PROJEC	Τ					
0400: Research, Development, Test & Evaluation, Defense-Wide					60421BB: S	becial Opera	tions CV-22	SF200: S	O CV-22				
BA 7: Operational Systems Development					opment								
C. Other Program Funding Summary (\$ in Millions)													
			FY 2014	<u>FY 2014</u>	<u>FY 2014</u>					Cost To			
Line Item	<u>FY 2012</u>	<u>FY 2013</u>	Base	000	<u>Total</u>	<u>FY 2015</u>	FY 2016	FY 2017	FY 2018	Complete	Total Cost		
• PROC1: 1000CV2200 CV-22	116.536	139.147	98.927		98.927	19.828	14.203	7.783	6.726	0.000	1,696.207		
SOF Modification													
PROC2/V022A0: Aircraft	429.865	423.475	230.798		230.798	0.000	0.000	0.000	0.000	0.000	4,272.414		
Procurement CV-22 (MYP)													
• RDT&E1/0401318F: <i>RDT&E,</i>	13.223	28.027	30.438		30.438	25.596	16.524	14.308	14.566	131.500	613.166		
USAF													
• RDT&E/0604262N: V-22 RDT&E,	71.938	54.436	30.350		30.350	60.421	54.720	52.202	53.063	273.513	9,363.505		
N BA-05													
<u>Remarks</u>													

D. Acquisition Strategy

The CV-22 program is managed by the Navy V-22 Joint Program Office (NAVAIRSYSCOM PMA-275). This ensures that the CV-22 changes are incorporated into the ongoing V-22 production line with minimum impact. Funding for the baseline CV-22 Engineering Manufacturing and Development, known as Block 0, is embedded in the Navy budget. Block 10 RDT&E funding was sent from USSOCOM to NAVAIRSYSCOM to be placed on contract with the V-22 prime contractor. Block 10 capability is required for compliance with the Joint Operational Requirements Document and associated Milestone III Capabilities Production Document. Block 20 and subsequent block upgrades are planned to follow the same acquisition strategy, with NAVAIRSYSCOM PMA-275 ensuring the integration of SOF-unique systems with the ongoing basic vehicle improvements supporting both the CV-22 and the Marine Corps MV-22.

E. Performance Metrics

N/A

	•	ost Analysis: PB 2	2014 Unite	ed States	Special C	·					1		: April 201	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide			M NOME 0421BB: S oment			s CV-22	PROJE SF200:	СТ SO CV-22	2		
Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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
Integration, Assembly, Test and Checkout (Block 20)	SS/CPFF	Bell-Boeing:Amarillo, TX	52.687	7.717	Dec 2011	-		-		-		-	0.000	60.404	
Systems Engineering	SS/CPFF	Raytheon:Indianapolis	, 5.465	-		-		-		-		-	0.000	5.465	
Enhanced Situational Awareness	SS/TBD	TBD:TBD	0.000	-		1.822	Feb 2013	-		-		-	0.000	1.822	
Prior Year Funding - Completed Efforts	SS/ Various	Various:Various	389.472	-		-		-		-		-	0.000	389.472	
	l	Subtotal	447.624	7.717		1.822		0.000		0.000		0.000	0.000	457.163	
			°^												
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Bas	-	FY 2 OC		FY 2014 Total	1		
	Contract Method	Performing	All Prior Years	FY 2 Cost	2012 Award Date	FY 2 Cost	2013 Award Date		-			-	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item Systems Test and	Contract		-	Cost	Award		Award	Ba	se Award	00	Award	Total			Value of
Cost Category Item Systems Test and	Contract Method & Type SS/	Performing Activity & Location Bell-Boeing; 413FLTS:Amarillo, TX; Hurlburt Field,	Years	Cost 1.795	Award Date	Cost	Award	Ba: Cost	se Award	OC Cost	Award	Total	Complete	Cost	Value of
Cost Category Item Systems Test and Evaluation (Block 20) System Test and Evaluation	Contract Method & Type SS/ Various SS/	Performing Activity & Location Bell-Boeing; 413FLTS:Amarillo, TX; Hurlburt Field, FL Bell-Boeing; DynCorp:Amarillo,	Years 8.506	Cost 1.795	Award Date Nov 2011	Cost -	Award	Ba Cost	se Award	Cost -	Award	Total	Complete 0.000	Cost 10.301	Value of
Cost Category Item Systems Test and Evaluation (Block 20) System Test and Evaluation Prior Year Funding -	Contract Method & Type SS/ Various SS/ Various SS/	Performing Activity & Location Bell-Boeing; 413FLTS:Amarillo, TX; Hurlburt Field, FL Bell-Boeing; DynCorp:Amarillo, TX; Fort Worth, TX	Years 8.506 13.241	Cost 1.795	Award Date Nov 2011	Cost - -	Award	Ba Cost - -	se Award	00 Cost - -	Award	Total Cost - -	Complete 0.000 0.000	Cost 10.301 14.226	Value of
Cost Category Item Systems Test and Evaluation (Block 20) System Test and Evaluation Prior Year Funding -	Contract Method & Type SS/ Various SS/ Various SS/	Performing Activity & Location Bell-Boeing; 413FLTS:Amarillo, TX; Hurlburt Field, FL Bell-Boeing; DynCorp:Amarillo, TX; Fort Worth, TX Various:Various	Years 8.506 13.241 43.582	Cost 1.795 0.985 -	Award Date Nov 2011 Dec 2011	Cost - - -	Award Date	Ba Cost - - -	Se Award Date		20 Award Date	Total Cost - -	Complete 0.000 0.000 0.000	Cost 10.301 14.226 43.582	Value of

PE 1160421BB: *Special Operations CV-22 Development* United States Special Operations Command

133

Exhibit R-4, RDT&E Schedule Profile: PB 20	14 Unit	ed S	tates	s Sp	ecia	l Ope	eratio	ons C	comr	nand									DAT	Έ: /	April	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluat BA 7: Operational Systems Development	ion, Dei	fense	e-Wic	de			F		1604					rations	CV-2		ROJ =200		CV-	22					
		FY	201	2		FY 2	2013	,	F	Y 201	4		FY 2	015	F	Y 201	6		FY 2	2017	7		FY 2	018	
	1	l 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
CV-22																		_							
CV-22 CV-22 Block 20 Development/Test																									

xhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	I Operations Command				DATE: Apri	l 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLAT PE 1160421BB: Special Development	-	ons CV-22	PROJECT SF200: SC) CV-22	
	Schedule Details					
		Sta	~ 4		En	
Events by Sub Project	Quar	Sta			En	
Events by Sub Project	Quar		rt Year	C	En luarter	id Year
	Quar			C		

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	m Justificati	ion: PB 20 ⁻	14 United S	tates Speci	al Operation	ns Comman	ıd			DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ition, Defen	se-Wide		R-1 ITEM I PE 116042			and Prepara	ation Syster	ns (MTPS)		
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	13.097	4.498	10.131	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S750: Mission Training and Preparation Systems	13.097	4.498	10.131	0.000	-	0.000	0.000	0.000	0.000	0.000	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

<u>Note</u>

Beginning in FY 2014, Mission Training and Preparation Systems (MTPS), Program Element 1160427BB has been consolidated into SO Aviation Systems, SOCOM Program Element 1160403BB.

A. Mission Description and Budget Item Justification

This program element funds the definition, design, development, prototyping, integration, and testing of MTPS to support training, avoid obsolescence, and maintain simulator concurrency with weapon systems' configurations; support mission planning and rehearsal systems enhancements required to meet Special Operations Forces (SOF)-unique mission requirements and correct deficiencies identified in previous testing; and support mission planning and rehearsal capabilities in current MTPS. The MTPS program element also includes program management, systems engineering, configuration management, architecture development, risk reduction, and trade study initiatives, as well as initiatives to assure interoperability and commonality between diverse SOF training systems.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	4.617	10.131	6.341	-	6.341
Current President's Budget	4.498	10.131	0.000	-	0.000
Total Adjustments	-0.119	0.000	-6.341	-	-6.341
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.119	-			
 Other Adjustments 	-	-	-6.341	-	-6.341
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s 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 1160427BB: <i>Mission Training and I</i>	
FY 2012: Decrease of \$0.119 million is due to a transfer of funds	to Small Business Innovative Research (-\$0.1	19 million).
FY 2013: None.		
FY 2014: Net decrease of \$6.341 million due to the consolidation	on of this Program Element 1160427BB into S	OCOM Program Element 1160403BB.
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project	Justification	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET A 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide		PE 116042	NOMENCLA 27BB: Mission n Systems (on Training	and	PROJECT S750: Miss Systems	sion Training	g and Prepa	aration
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
S750: Mission Training and Preparation Systems	13.097	4.498	10.131	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 funds the definition, design, development, prototyping, integration, and testing of Mission Training and Preparation Systems (MTPS) to support training, avoid obsolescence, and maintain simulator concurrency with weapon system configurations; support mission planning and rehearsal systems enhancements required to meet Special Operations Force (SOF)-unique mission requirements and correct deficiencies identified in previous testing; and support mission planning and rehearsal capabilities in current MTPS. The MTPS project also includes program management, systems engineering, configuration management, architecture development, risk reduction, and trade study initiatives, as well as initiatives to assure interoperability and commonality between diverse SOF training systems.

Sub-projects include:

• Special Operations Mission Planning Environment (SOMPE): Develops, integrates, tests, and validates software enhancements required to meet SOF-unique requirements for, and correct deficiencies to, mission planning, preview, and execution software tools to support all phases of SOF operations from deliberate to time critical. The SOMPE project automates time-sensitive planning activities and provides enhanced situational awareness during mission execution. SOMPE provides the interoperable environment for SOF adaptive planning to integrate global operations including, but not limited to, precision strike software, digital navigation, and unmanned aerial systems command and control. This project also provides the integration of SOMPE with multi-dimensional visualization systems, providing immersive mission rehearsal in minimal timeframes from the SOMPE mission plan. SOMPE is embedded in the USSOCOM Headquarters, Theater Special Operations Commands, Joint Special Operations Task Forces, Joint Special Operations Aviation Components, SOF warfighters, and SOF warfighter platforms

 MC/AC-130J Simulator (MC/AC-130J): Conducts analysis, development, integration, assembly, test and checkout of SOF-unique MC-130J and AC-130J simulator development efforts modifications to include, but not limited to, all efforts of technical and functional activities associated with the design, development, and production of mating surfaces, structures, equipment, parts, materiels, and software required to assemble equipment (hardware/software) elements into training mission equipment as a whole and not directly part of any other individual element.

• Terrain Following/Terrain Avoidance Silent Knight Radar Simulator (TF/TA_SKR): Integrates, tests, and validates the SKR capability into the MH-47G and MH-60 combat mission simulators. This is a SOF-common multi-mode radar characterized by a Low Probability of Intercept/ Low Probability of Detection (LPI/LPD) capability.

	ification: PB	2014 United	States Spe	cial Operatio	ons Commar	nd			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation,	Defense-W	lide	PE 11	EM NOMEN 60427BB: M ration Syste	lission Traini	ng and	PROJEC S750: Mis Systems		ing and Prep	paration
B. Accomplishments/Planned Pro	grams (\$ in N	<u>lillions)</u>						F	Y 2012	FY 2013	FY 2014
Title: Special Operations Mission Pl	lanning Enviro	nment (SON	MPE)						2.736	4.766	0.000
Description:											
FY 2012 Accomplishments: Continued software development for Improved ground and maritime plan				rface with m	ission plann	ing and rehe	arsal system	IS.			
FY 2013 Plans: Continue required development of s requirements, data transfer software systems, and automated performance	e from mission ce models and	planning sy performan	stems to SC	OF helicopter	rs, airplanes	, and simulat	tor/rehearsal	-			
transfer and performance software of	somproung do										
transfer and performance software of <i>Title:</i> MC/AC-130J Simulator (MC/A									1.762	4.041	0.000
•	C-130J SIM) rements Analy ommon Immer	rsis to define	er Environme					que	1.762	4.041	0.000
<i>Title:</i> MC/AC-130J Simulator (MC/A <i>FY 2012 Accomplishments:</i> Completed Training Systems Requir training systems. Initiated Expert C	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra	rsis to define rsive Theate aining devic	er Environme es.	ent software	developmen	t efforts to m	neet SOF-un		1.762	4.041	0.000
<i>Title:</i> MC/AC-130J Simulator (MC/A <i>FY 2012 Accomplishments:</i> Completed Training Systems Requisitraining systems. Initiated Expert Co capability requirements to support M <i>FY 2013 Plans:</i> Continue development of Special O	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Forc	rsis to define rsive Theate aining devic ces unique tr	er Environme es.	ent software	developmen	t efforts to m	neet SOF-un		0.000	4.041	0.000
<i>Title:</i> MC/AC-130J Simulator (MC/A <i>FY 2012 Accomplishments:</i> Completed Training Systems Requi training systems. Initiated Expert C capability requirements to support M <i>FY 2013 Plans:</i> Continue development of Special O Series MC/AC-130J aircraft.	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Forc idance Simula	rsis to define rsive Theate aining devic ces unique to tor (TF/TA)	er Environme es. raining capal	ent software o	developmen oport training	t efforts to m	neet SOF-un				
<i>Title:</i> MC/AC-130J Simulator (MC/A <i>FY 2012 Accomplishments:</i> Completed Training Systems Requit training systems. Initiated Expert Co capability requirements to support M <i>FY 2013 Plans:</i> Continue development of Special O Series MC/AC-130J aircraft. <i>Title:</i> Terrain Following/Terrain Avo <i>FY 2013 Plans:</i>	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Forc idance Simula	rsis to define rsive Theate aining devic ces unique to tor (TF/TA)	er Environme es. raining capal	ent software o bilities to sup v Wing simula	developmen oport training ators.	t efforts to m	neet SOF-un	sign			
<i>Title:</i> MC/AC-130J Simulator (MC/A <i>FY 2012 Accomplishments:</i> Completed Training Systems Requit training systems. Initiated Expert Co capability requirements to support M <i>FY 2013 Plans:</i> Continue development of Special O Series MC/AC-130J aircraft. <i>Title:</i> Terrain Following/Terrain Avo <i>FY 2013 Plans:</i>	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Forc idance Simula of TF/TA cap	rsis to define rsive Theate aining devic ces unique tr tor (TF/TA) abilities into	er Environme es. raining capal SOF Rotary	bilities to sup Wing simula	developmen oport training ators. nplishment	t efforts to m	v Mission De	sign	0.000	1.324	0.000
Title: MC/AC-130J Simulator (MC/A FY 2012 Accomplishments: Completed Training Systems Requit training systems. Initiated Expert Co capability requirements to support M FY 2013 Plans: Continue development of Special O Series MC/AC-130J aircraft. Title: Terrain Following/Terrain Avo FY 2013 Plans: Initiate development and integration C. Other Program Funding Summ Line Item	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Forc idance Simula of TF/TA capa ary (\$ in Millio FY 2012	rsis to define rsive Theate aining devic ces unique tr tor (TF/TA) abilities into ons) FY 2013	er Environme es. raining capal SOF Rotary <u>FY 2014</u> <u>Base</u>	ent software o bilities to sup v Wing simula	developmen oport training ators.	t efforts to m for the new s/Planned P <u>FY 2015</u>	v Mission De rograms Su	btotals	0.000 4.498 FY 2018	1.324 10.131 <u>Cost To</u> <u>Complete</u>	0.000 0.000
Title: MC/AC-130J Simulator (MC/A FY 2012 Accomplishments: Completed Training Systems Requit training systems. Initiated Expert Co capability requirements to support M FY 2013 Plans: Continue development of Special O Series MC/AC-130J aircraft. Title: Terrain Following/Terrain Avo FY 2013 Plans: Initiate development and integration	C-130J SIM) rements Analy ommon Immer IC/AC-130J tra perations Force idance Simula of TF/TA capa ary (\$ in Millio	rsis to define rsive Theate aining devic ces unique tr tor (TF/TA) abilities into	er Environme es. raining capal SOF Rotary <u>FY 2014</u>	bilities to sup Wing simula Accon	developmen oport training ators. nplishments <u>FY 2014</u>	t efforts to m for the new s/Planned P	v Mission De	sign btotals	0.000 4.498 FY 2018	1.324 10.131 <u>Cost To</u>	0.000 0.000

140

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	perations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160427BB: Mission Training and	S750: Mission Training and Preparation
BA 7: Operational Systems Development	Preparation Systems (MTPS)	Systems

D. Acquisition Strategy

• SOMPE: Comprises multiple mission planning software development contracts awarded annually to developers for each project effort. Acquisition strategies depend on the type of development effort. For minor software development projects, contracts may be awarded as sole source acquisitions from existing contract vehicles. For major software development projects, contracts may be awarded as limited or full and open competition acquisitions. Individual acquisition strategies are developed as the scope of software development projects are identified and defined.

• MC/AC-130J Simulator: Comprises multiple contracts that may be awarded via competition or sole source to developers for each project effort as required to ensure training device development conforms to MC/AC-130J SOF-unique capabilities.

• TF/TA SKR: Contract awarded as a competitive small business set aside. Project will be integrated as part of the Common Avionics Architecture System integration effort.

E. Performance Metrics

None

Exhibit R-3, RDT&E	-		2014 Unite	ed States	Special (· · · · · · · · · · · · · · · · · · ·							: April 201	13	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Defense-	Nide		PE 116	M NOME 0427BB: I ation Syste	Mission T	Training a	nd	PROJE S750: M System	Aission Tr	aining and	Prepara	ation
Product Developme	nt (\$ in M	illions)	[FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 O(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 Complete	Total Cost	Target Value of Contrac
Special Operations Mission Planning Environment Software (SOMPE)	C/TBD	Various:Various	10.600	1.730	Jan 2012	4.034	Jan 2013	-		-		-	0.000	16.364	
MC/AC-130J Simulator	TBD	TBD:TBD	0.000	1.762	Mar 2012	4.041	Mar 2013	-		-		-	0.000	5.803	
TF/TA SKR Simulator	C/IDIQ	PEO-STRI:Orlando, FL	0.000	-		0.883	Feb 2013	-		-		-	0.000	0.883	
		Subtotal	10.600	3.492		8.958		0.000		0.000		0.000	0.000	23.050	
Support (\$ in Millior	າຣ)		ſ	FY	2012	FY 2	2013	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 Complete	Total Cost	Target Value of Contrac
Special Operations Mission Planning Environment Software (SOMPE)	MIPR	Special Operations Mission Planning Office:Fort Eustis, VA	0.947		Feb 2012		Feb 2013	-	Date	-	Dale	-	0.000	1.482	
TF/TA SKR Simulator	MIPR	PEO-STRI:Orlando, FL	0.000	-		0.441	Feb 2013	-		-		-	0.000	0.441	
		Subtotal	0.947	0.275		0.701		0.000		0.000		0.000	0.000	1.923	
Test and Evaluation	(\$ in Milli	ons)	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 Complete	Total Cost	Target Value of Contrac
Special Operations Mission Planning Environment Software (SOMPE)	C/CPFF	Wyle-CAS:Huntsville, AL	1.550	0.731	Jan 2012	0.472	Jan 2013	-		-		-	0.000	2.753	
		Subtotal	1.550	0.731		0.472		0.000		0.000		0.000	0.000	2.753	

United States Special Operations Command

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2014 Unite	ed States	Specia	I Operation	s Comm	nand				DATE	: April 201	3	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Defense-	Wide		PE 116	0427BB	ENCLATU Mission T stems (MT	Training a	nd	PROJE S750: M Systems	lission Tra	aining and	Prepara	ntion
	All Prior Years	FY	2012	FY 2	2013		2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	13.097	4.498		10.131		0.000		0.000		0.000	0.000	27.726	

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 20 ²	14 Unit	ed S	States	s Sp	ecia	l Op	erat	ions	Con	nma	nd											DA	TE:	Apri	1 20)13		
APPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluatio 3A 7: Operational Systems Development	on, Dei	fens	e-Wid	de				ΡE	116	0427	7BB	ENC : Mis stems	sior	n Tra	ainin	g an	d		S7				Trai	ining	an	d Pre	epara	ation
		F١	201	2		FY	201	3		FY	201	4		FY	201	5		FY	201	6		FY	201	7		FY	2018	8
	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	1 2	3	4
Special Operations Mission Planning Environment (SOMPE)																												
Software Development																												
Development Support																												_
Test & Evaluation																												
MC/AC-130J Simulator																												
MC/AC-130J Simulator Development																										-		
TF/TA SKR Simulator																												_
TF/TA SKR Simulator Development/ Integration																												
Development Support																												-

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Operations Command DATE									
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT								
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160427BB: <i>Mission Training and</i>	S750: <i>Mission Training and Preparation</i>								
BA 7: Operational Systems Development	<i>Preparation Systems (MTPS)</i>	<i>Systems</i>								

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
Special Operations Mission Planning Environment (SOMPE)				
Software Development	1	2012	1	2014
Development Support	1	2012	1	2014
Test & Evaluation	1	2012	1	2014
MC/AC-130J Simulator				
MC/AC-130J Simulator Development	2	2012	1	2014
TF/TA SKR Simulator				
TF/TA SKR Simulator Development/Integration	3	2013	4	2013
Development Support	3	2013	4	2013

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20 ⁻	14 United St	tates Speci	al Operation	ns Comman	ıd			DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, To BA 7: Operational Systems Devel			NOMENCLA 29BB: AC/M									
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	25.495	18.091	19.647	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.233
S875: AC/MC-130J	25.495	18.091	19.647	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.233

[#] 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 FY2014, this Program Element has been consolidated into SOCOM Program Element Program Element 1160403BB, SO Aviation Systems.

A. Mission Description and Budget Item Justification

The AC/MC-130J program element funds core SOF-unique modifications to replace aging MC-130E Combat Talon I, MC-130P Combat Shadow, MC-130H Combat Talon II, AC-130W Stinger II, AC-130U Spooky airframes. The 8 AC-130H Spectre, 12 AC-130W Stinger II and 17 AC-130U Spooky airframes will be replaced with MC-130J aircraft modified with the Precision Strike Package (PSP) to achieve the AC-130J configuration. These platforms perform clandestine or low visibility, single or multi-ship low-level missions intruding politically-sensitive or hostile territories; provide air refueling for special operations helicopters and CV-22 aircraft; airdrop of leaflets, small special operations teams, resupply bundles and combat rubber raiding craft; and provide close air support (CAS), air interdiction, armed reconnaissance, escort, and force protection - integrated base defense. Additional capabilities include low-level navigation and in-flight refueling. The Air Force will procure and field basic aircraft, common support equipment, and trainers for USSOCOM. An incremental upgrade approach will be used to incorporate SOF capabilities onto the aircraft.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	18.571	19.647	8.225	-	8.225
Current President's Budget	18.091	19.647	0.000	-	0.000
Total Adjustments	-0.480	0.000	-8.225	-	-8.225
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.480	-			
Other Adjustments	-	-	-8.225	-	-8.225
Change Summary Explanation					
Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 04 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160429BB: AC/MC-130J	· · · · · · · · · · · · · · · · · · ·
FY 2012: Decrease of -\$0.480 million is due to a transfer of fund	ds to Small Business Innovative Research (-\$0.4	480 million).
FY 2013: None.		
FY 2014: Decrease of \$-8.225 million is due to this Program Ele	ement being consolidated into SOCOM Program	Element 1160403BB beginning FY 2014.
Schedule: None.		
Technical: None		

Exhibit R-2A, RDT&E Project J	lustification:	PB 2014 L	Jnited States	s Special O	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve		R-1 ITEM I PE 116042				PROJECT S875: AC/I						
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S875: AC/MC-130J	25.495	18.091	19.647	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.233
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

The AC/MC-130J project funds core Special Operations Forces (SOF)-unique modifications to replace aging MC-130E Combat Talon I, MC-130P Combat Shadow, MC-130H Combat Talon II, AC-130H Spectre, AC-130W Stinger II, and AC-130U Spooky airframes. The 8 AC-130H Spectre, 12 AC-130W Stinger II and 17 AC-130U Spooky airframes will be replaced with MC-130J aircraft modified with the Precision Strike Package (PSP) to achieve the AC-130J configuration. These platforms perform clandestine or low visibility, single- or multi-ship low-level missions intruding politically-sensitive or hostile territories; provide air refueling for special operations helicopters and CV-22 aircraft; airdrop leaflets, small special operations teams, resupply bundles and combat rubber raiding craft; and close air support (CAS), air interdiction, armed reconnaissance, escort, and force protection - integrated base defense. Additional capabilities include low-level navigation and in-flight refueling. The Air Force will procure and field basic aircraft, common support equipment, and trainers for USSOCOM. USSOCOM will then employ an incremental upgrade approach to incorporate SOF capabilities onto the Air Force-provided aircraft.

Conducts development, integration, and testing of aircraft enhancements to meet SOF-unique mission requirements. Enhancements include, but are not limited to, SOF communications, mission processors, aircraft performance enhancements, enhanced situational awareness, electronic warfare and survivability systems, and other SOF mission kits. Provides PSP aircraft infrastructure development.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: AC/MC-130J	18.091	19.647	0.000
FY 2012 Accomplishments: Continued development of SOF-unique mission improvements, continued PSP aircraft infrastructure, and SOF mission kits.			
FY 2013 Plans: Continue SOF-unique mission improvements including, but not limited to, MC-130J Increment 3 development, integration, and tes efforts. Develop and test aircraft modification designs for PSP kit installation. Update interface designs based on results of initial design evaluation.	t		
Accomplishments/Planned Programs Subtotal	s 18.091	19.647	0.000

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	States Spec	cial Operatio	ns Comman	d			DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation,	Defense-W	ïde		EM NOMEN 60429BB: <i>A</i> (PROJEC S875: AC	-		
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
		-	<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	
Line Item	FY 2012	<u>FY 2013</u>	Base	000	Total	<u>FY 2015</u>	FY 2016	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	Total Cost
• PROC1: SOF TANKER	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	99.666
RECAPITALIZATION											
• PROC2: AC/MC-130J	61.391	51.484	51.870		51.870	105.105	57.527	58.866	95.694	Continuing	Continuing
• PROC3: PRECISION STRIKE	0.000	73.013	107.687		107.687	184.232	240.382	281.984	278.418	705.250	1,870.966
PACKAGE											
<u>Remarks</u>											

D. Acquisition Strategy

The basic AC/MC-130J aircraft will be acquired under the United States Air Force HC/MC-130J Recapitalization procurement program. USSOCOM will fund development, integration, test and production/retrofit of SOF-unique mission equipment under this program and the USSOCOM Precision Strike Package program.

E. Performance Metrics

N/A.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	d States	Special C	Operation	is Comma	ind				DATE	: April 201	13	
APPROPRIATION/BU 0400: Research, Dev BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-\	Nide		1	M NOME 0429BB: /				PROJE S875: <i>A</i>	СТ \ <i>C/MC-13</i>	OJ		
Product Developme	nt (\$ in M	illions)	[FY 2	2012	FY 2	2013		2014 Ise	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
MC-130J	C/Various	Lockheed Martin:Atlanta, GA	23.290	13.318	Mar 2012	7.634	Mar 2013	-		-		-	0.000	44.242	
AC-130J	C/Various	Lockheed Martin:Lexington, KY	1.592	4.773	Jan 2012	12.013	Jan 2013	-		-		-	0.000	18.378	
		Subtotal	24.882	18.091		19.647		0.000		0.000		0.000	0.000	62.620	
Support (\$ in Million	ıs)			FY 2	2012	FY 2	2013		2014 Ise	FY 2 O(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 Complete	Total Cost	Target Value of Contract
Development Support	Allot	ACS/WIS:Wright Patterson AFB, OH	0.613	0.000		0.000		0.000		-		0.000	0.000	0.613	
		Subtotal	0.613	0.000		0.000		0.000		0.000		0.000	0.000	0.613	
			All Prior Years	FY 2	2012	FY 2	2013		2014 Ise	FY 2 O(2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	25.495	18.091		19.647		0.000		0.000		0.000	0.000	63.233	

Remarks

APPROPRIATION/BUDGET ACTIVIT 0400: Research, Development, Test & 3A 7: Operational Systems Developm	Evaluation, De	fense	-Wide	9									URE 130J			PR S87		CT C/MC-	130J	1				
		EV	2012			FY 2	013		FY	2014			FY 2015		E)	2016		FY	2017	7		FY 2	018	
		ГТ	2012				010									2010							• • •	
		1 2		4	1	2	3	4 1	2	1.	4	1	2 3	4	1 2		4	1 2		4	1	2	3	4
AC/MC-130J					1			4 1			4	1		4			4			4	1			4

nibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	I Operations Command		DA	ATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160429BB: <i>AC/MC-130J</i>		PROJECT S875: AC/MC-	-130J
	Schedule Details	art		End
Events by Sub Project	Sta		Quar	End rtor Voor
Events by Sub Project		art Year	Quar	

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20	14 United S	tates Speci	al Operation	ns Comman	d			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA B1BB: WAR			I			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	17.970	-	17.970	20.573	21.762	14.363	14.363	Continuing	Continuing
S710: Tactical Systems Development	-	0.000	0.000	0.540	-	0.540	1.023	0.975	0.875	0.893	Continuing	Continuing
S700: Communications Equipment and Electronics Systems	-	0.000	0.000	5.836	-	5.836	7.355	7.342	6.320	6.450	Continuing	Continuing
S725: Tactical Radio Systems	-	0.000	0.000	1.699	-	1.699	3.670	5.637	1.697	1.692	Continuing	Continuing
S375: Weapons Systems	-	0.000	0.000	0.000	-	0.000	0.000	0.005	0.005	0.005	Continuing	Continuing
S385: Soldier Protection and Survival Systems	-	0.000	0.000	2.336	-	2.336	2.554	2.929	1.913	1.740	Continuing	Continuing
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
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
S800: Munitions Advanced Development	-	0.000	0.000	3.498	-	3.498	0.519	0.013	0.000	0.000	Continuing	Continuing
D476: Military Information Support Operations	-	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

<u>Note</u>

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

Command	DATE: April 2013
MENCLATURE	
B: WARRIOR SYSTEMS	
to provide a maximum degree of a autonomy. Communications e eroperability with all Services, v protection and survival requirem ors will permit small, highly train onal system development and of elected information and indicato organizations, groups and indiv	
inaissance operations in denied	tire spectrum of conflict. SOF must d areas against insurgent units, terrorists, o s that SOF systems remain technologically
	uirements of SOF. Tactical systems provide situational awareness, mission planning
	nunications equipment that improves their ntinuing effort to develop smaller, lighter,
eloped an overall strategy to en ios provide the critical Comman DCO) and training exercises. T s, and allied/coalition forces. Ta	mproves their war fighting capability without neure that Tactical Radio Systems continue nd, Control, and Communication (C3) link They also provide interoperability with all actical Radios rapidly and seamlessly nts and higher echelon headquarters,
	tween infiltrated/operational elemer

	UNCLASSIFIED	
Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160431BB: <i>WARRIOR SYSTEMS</i>	
This project provides for next generation system development and pre- and weapon accessories to meet the unique requirements of SOF. Cur Sniper Rifle and an anti-materiel rifle that will pursue heavy sniper syste weapons accessories program, efforts are currently focusing on muzzle by leveraging the latest technological advances in optical accessories.	rrent efforts include; but are not limited to the life em technology to provide SOF with precision eng	cycle replacement of the MK13 by the Precision gagement capabilities on materiel target. In the
Soldier Protection and Survival Systems: This project provides for development, testing, and integration of special Specialized equipment will improve survivability and mobility of SOF wh explosive device system improvements and testing to meet the continue	nile conducting varied missions. Current efforts in	
Theater Body Armor and Associated Equipment: Note: The National Defense Authorization Act of 2010 directed a separ This project provides specialized equipment to meet the unique soldier equipment improves survivability and load bearing equipment impacting SPEAR program by supporting body armor plates, soft armor, helmets, body armor and personal protective equipment to meet the current balli	protection and survival requirements of SOF with the mobility of SOF while conducting varied mis and eye protection. It also provides for the research	h ballistic protection. Specialized ballistic ssions. This project funding enhances the
Visual Augmentation, Lasers and Sensor Systems: This project provides for next generation system development and pre- laser and sensor systems equipment to meet the unique requirement of augmentation for both crew-served and individual systems; leveraging t ability to detect, classify, and engage targets out to 800 meters without	f SOF. Programs in this area include; but are not the latest technological advances. A current cap	t limited to binocular/monocular devices, visual
Munitions Advanced Development: This project provides for the advanced engineering operational system Funding supports development of Insensitive Munitions (IM) technology Chapter 141, Section 2389 (December 2001). (Including bullet impact, Testing is in accordance with the USSOCOM IM Strategic Plan. Fundi including the development and integration of improved warheads, seek meet SOF requirements.	v and evaluation, in accordance with statutory req fast cook off, fragment impact, slow cook off, syr ing also support efforts to develop and improve S	quirement set forth in U.S. Code, Title 10, mpathetic detonation, and shaped charge test.) Stand-Off Precision Guided Munitions (SOPGM)
MISO:		

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 U	nited States Speci	al Operations Cor	mmand	DATE	: April 2013
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOME	NCLATURE	·	
0400: Research, Development, Test & Evaluation, Defense-W	Vide	PE 1160431BB:	WARRIOR SYSTEMS		
BA 7: Operational Systems Development					
This project provides for the development, test and integrat					
foreign audiences to influence their emotions, motives, obje		•		ernments, organizatior	is, groups, and individuals.
This project funds transformational systems and equipment	t to conduct MISO	in support of com	batant commanders.		
B. Program Change Summary (\$ in Millions)	FY 2012	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
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.

Exhibit R-2A, RDT&E Project J	-	PB 2014 U	United States							DATE: A	pril 2013	
APPROPRIATION/BUDGET AC						NOMENCL			PROJEC			
0400: Research, Development, 7 BA 7: Operational Systems Deve		tion, Defer	se-Wide		PE 116043	31BB: <i>WAR</i>	RIOR SYST	TEMS	S710: Ta	ctical Syste	ms Developi	nent
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 201	7 FY 2018	Cost To Complete	Total Cost
S710: Tactical Systems Development	-	0.000	0.000	0.540	-	0.540	1.023	0.975	5 0.87	.89	3 Continuing	Continuing
Quantity of RDT&E Articles												
[#] FY 2013 Program is from the I	Y 2013 Pres	sident's Bu	dget, submitt	ed Februa	ry 2012	1		1			1	
This project provides for develo				rained forc	es to condu	ict required	operations	across the	entire spe	ectrum of co	nflict. These	operations
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to oper ensure mission success. The Tactical Local Area Network storage, and display capabilities mission planning kits and field oper ensure mission planning kits and field operation. 	equipment w h environme , direct actic ate in denied ork (TACLAN to support so omputing de	vill permit s ents, for uns on, or deep d areas cor d) provides situational a evices.	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm	l locations r tions in den ed threat m nanders and	equiring sm ied areas ag andates tha d forward de	all unit auto gainst insur at SOF syste eployed force	onomy. SO gent units, ems remain es advanc	F must infi terrorists, n technolo ed networ trol of forc	Itrate by lan or highly so gically supe king, autom es. The proj	d, sea, and a phisticated t rior to threat ated data pro ect consists	air to nreat forces to ocessing, of suites,
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Network storage, and display capabilities 	equipment w h environme , direct actic ate in denied ork (TACLAN to support so omputing de	vill permit s ents, for uns on, or deep d areas cor d) provides situational a evices.	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm	l locations r tions in den ed threat m nanders and	equiring sm ied areas ag andates tha d forward de	all unit auto gainst insur at SOF syste eployed force	onomy. SO gent units, ems remain es advanc	F must infi terrorists, n technolo ed networ trol of forc	Itrate by lan or highly so gically supe king, autom	d, sea, and a phisticated t rior to threat ated data pro	air to nreat forces to ocessing,
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to oper ensure mission success. The Tactical Local Area Network storage, and display capabilities mission planning kits and field oper ensure mission planning kits and field operation. 	equipment w h environme , direct actic ate in denied ork (TACLAN to support so omputing de	vill permit s ents, for uns on, or deep d areas cor d) provides situational a evices.	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm	l locations r tions in den ed threat m nanders and	equiring sm ied areas ag andates tha d forward de	all unit auto gainst insur at SOF syste eployed force	onomy. SO gent units, ems remain es advanc	F must infi terrorists, n technolo ed networ trol of forc	Itrate by lan or highly so gically supe king, autom es. The proj	d, sea, and a phisticated t rior to threat ated data pro ect consists	air to nreat forces to ocessing, of suites,
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Network storage, and display capabilities mission planning kits and field of B. Accomplishments/Planned I 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de Programs (\$	vill permit s ents, for uns on, or deep d areas cor N) provides situational a evices. in Million	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm nission pla	i locations r tions in den ed threat m nanders and inning and e	equiring sm ied areas ag andates tha d forward de execution, a	all unit auto gainst insur at SOF syste eployed force and commar wireless, se	enomy. SO gent units, ems remain es advanc ad and con	F must infi terrorists, n technolo ed networ trol of forc	Itrate by lan or highly so gically supe king, autom es. The proj	d, sea, and a phisticated t rior to threat ated data pro ect consists FY 2013 0.000	air to hreat forces to ocessing, of suites, FY 2014 0.540
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Netwo storage, and display capabilities mission planning kits and field of <u>B. Accomplishments/Planned I</u> <i>Title:</i> TACLAN Suites FY 2014 Plans: Continues development, integrat 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de Programs (\$	vill permit s ents, for uns on, or deep d areas cor N) provides situational a evices. in Million	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm nission pla	i locations r tions in den ed threat m nanders and inning and e	equiring sm ied areas ag andates tha d forward de execution, a	all unit auto gainst insur at SOF syste eployed force and commar wireless, se	enomy. SO gent units, ems remain es advanc ad and con	F must infi terrorists, n technolo ed networ trol of forc	Itrate by Ian or highly so gically supe king, autom es. The proj	d, sea, and a phisticated t rior to threat ated data pro ect consists FY 2013	air to hreat forces to ocessing, of suites, FY 2014 0.540
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Netwo storage, and display capabilities mission planning kits and field of <u>B. Accomplishments/Planned I</u> <i>Title:</i> TACLAN Suites FY 2014 Plans: Continues development, integrat 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de Programs (\$ on, and testi	vill permit s ents, for uns on, or deep d areas cor N) provides situational a evices.	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r	iods and in nce operat sophisticat onal comm nission pla	i locations r tions in den ed threat m nanders and inning and e	equiring sm ied areas ag andates tha d forward de execution, a	all unit auto gainst insur at SOF syste eployed force and commar wireless, se	enomy. SO gent units, ems remain es advanc ad and con	F must infi terrorists, n technolo ed networ trol of forc	Itrate by lan or highly so gically supe king, autom es. The proj	d, sea, and a phisticated t rior to threat ated data pro ect consists FY 2013 0.000	air to hreat forces to ocessing, of suites, FY 2014 0.540
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Network storage, and display capabilities mission planning kits and field of B. Accomplishments/Planned I Title: TACLAN Suites FY 2014 Plans: Continues development, integrat rest, thin client capabilities, and of C. Other Program Funding Sum 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de rograms (\$ on, and testi ross domain	vill permit s ents, for uns on, or deep d areas cor N) provides situational a evices. in Millions ing of evol a solutions.	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r s) utionary tech	iods and in nce operat sophisticat onal comm nission pla nology inse 014 FY	ertions suct Accomplis	equiring sm ied areas ag andates tha d forward de execution, a n as secure hments/Pla	all unit auto gainst insur at SOF syste eployed force and commar wireless, se anned Prog	ecure data	F must infi terrorists, n technolo ed networ trol of forc f at at	Itrate by Ian or highly so gically supe king, autom es. The proj Y 2012 0.000 0.000	d, sea, and a phisticated t rior to threat ated data protect consists FY 2013 0.000 0.000 0.000	air to hreat forces to bcessing, of suites, FY 2014 0.540 0.540
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Networkstorage, and display capabilities mission planning kits and field of B. Accomplishments/Planned I <i>Title:</i> TACLAN Suites FY 2014 Plans: Continues development, integrat rest, thin client capabilities, and of C. Other Program Funding Sum 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de Programs (\$ on, and testi ross domain mary (\$ in l	vill permit s ents, for uns on, or deep d areas cor l) provides situational a evices. in Millions millions) 12 FY 2	Mall, highly t specified per reconnaissantrolled by a SOF operati awareness, r s) utionary tech	iods and in nce operat sophisticat onal comm nission pla nology inse 014 FY ase	ertions such Accomplis 2014 FY OCO	equiring sm ied areas ag andates tha d forward de execution, a h as secure hments/PI	all unit auto gainst insur at SOF syste eployed force and commar wireless, se anned Prog Y 2015	ecure data	F must infi terrorists, n technolo ed networ trol of forc f at ototals	Itrate by Ian or highly so gically supe king, autom es. The proj Y 2012 0.000 0.000 <u>0.000</u>	d, sea, and a phisticated t rior to threat ated data protect consists FY 2013 0.000 Cost To Complete	air to nreat forces to ocessing, of suites, FY 2014 0.540 0.540
 (SOF). Specialized automation are generally conducted in hars conduct unconventional warfare forces. The requirement to ope ensure mission success. The Tactical Local Area Network storage, and display capabilities mission planning kits and field of B. Accomplishments/Planned I Title: TACLAN Suites FY 2014 Plans: Continues development, integrat rest, thin client capabilities, and of C. Other Program Funding Sum 	equipment w h environme , direct actic ate in denied ork (TACLAN to support s omputing de Programs (\$ on, and testi ross domain mary (\$ in l	vill permit s ents, for uns on, or deep d areas cor l) provides situational a evices. in Millions millions) 12 FY 2	mall, highly t specified per reconnaissa ntrolled by a SOF operati awareness, r s) utionary tech	iods and in nce operat sophisticat onal comm nission pla nology inse 014 FY ase	ertions such Accomplis 2014 FY OCO	equiring sm ied areas ag andates tha d forward de execution, a h as secure hments/PI	all unit auto gainst insur at SOF syste eployed force and commar wireless, se anned Prog Y 2015	ecure data	F must infi terrorists, n technolo ed networ trol of forc f at at	Itrate by Ian or highly so gically supe king, autom es. The proj Y 2012 0.000 0.000 <u>0.000</u>	d, sea, and a phisticated t rior to threat ated data protect consists FY 2013 0.000 0.000 0.000	air to nreat forces to ocessing, of suites, FY 2014 0.540 0.540

159

NOMENCLATURE	
	DJECT D: Tactical Systems Development
	31BB: WARRIOR SYSTEMS S710

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-3, RDT&E F	Project C	ost Analysis: PB 2	2014 Unite	d States	Special	Operation	s Comma	and				DATE	: April 20	13				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development								NCLATU WARRIO	RE R SYSTE	PROJE S710: 7		vstems De	evelopme	nt				
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	013	FY 2 Ba	2014 se	FY 2 OC		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 2	2012	FY 2014 FY 2013 Base								2014 CO	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

Exhibit R-2A, RDT&E Project		DATE: April 2013										
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide		R-1 ITEM PE 116043	PROJECT S700: Con Electronics	nmunication	nt and				
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:			

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	States Spe	cial Operatio	ons Comman	d			DATE: /	April 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation	, Defense-W	lide		EM NOMEN 60431BB: W		YSTEMS			ions Equipme s	ent and
B. Accomplishments/Planned Pro	grams (\$ in I	<u>Millions)</u>							FY 2012	FY 2013	FY 2014
Continues to develop, test and evalue integrate Evolutionary Technology In SOF Information Enterprise services	nsertions (ET), such as a	wide-band S	SATCOM on	-the-move g						
Title: SPCOM									0.000	0.000	4.744
FY 2014 Plans: Begins segment development for th near-term impact to operators.	e special com	munications	enterprise;				craft) to provid		0.000	0.000	5.836
C. Other Program Funding Summ	ary (\$ in Milli	ons)					<u> </u>	I	I		
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	<u> </u>
Line Item • PROC1: WARRIOR SYSTEMS	<u>FY 2012</u> 0.000	<u>FY 2013</u> 0.000	<u>Base</u> 210.540	<u>000</u>	<u>Total</u> 210.540	<u>FY 2015</u> 192.656	<u>FY 2016</u> 203.159	FY 201 185.79		 <u>Complete</u> Continuing 	Total Cos Continuing
<u>Remarks</u>											
 D. Acquisition Strategy SDN is a fielded program with E certifications, functional and operations 			-	and light vari	ants. Comm	ercial and g	overnment ag	ency so	urces will be	leveraged fo	r required

• 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-3, RDT&E F			2014 Unite	ed States	Special	Operation	s Comma	and			-	DATE	: April 20	13			
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	lopment,	Test & Evaluation,	Defense-I	Wide			-	NCLATU WARRIO	RE R SYSTE	MS		Communic	nmunications Equipmer s Systems				
Product Developmer	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise		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 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 Milli	ons)	[FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise		FY 2014 0CO						
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 2	2012	FY 2	2013	FY 2 Ba	2014 Ise		2014 CO	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

hibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command															DA	ATE	: Ap	oril 2	2013										
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, L BA 7: Operational Systems Development	esearch, Development, Test & Evaluation, Defense-Wide PE 1160431BB: WARRIOR SYSTEMS										S7	ROJI '00: ectro	Con	ົກກາເ			ns E	Ξquiµ	omer	nt an	d								
		FY	201	2		FY	201	13		F	Y 201	4		FY	201	5		FY	201	6		F۲	(20	17		F	Y 20	18	
	1	2	3	4	1	2	3	4	1		2 3	4	، ۱	1 2	2 3	4	1	2	3	4	1	2	2 3	3	4	1	2	3 4	4
SOF Deployable Node				÷	·	÷					·				·				÷										
Evolutionary Technology Insertions																													
Special Communications Enterprise Program																													
Enterprise Segment Services Development																													
Back-End Segment Capabilities Development																													
Field Segment Kits Development																													

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160431BB: <i>WARRIOR SYSTEMS</i>	PROJECT S700: Con Electronics	nmunications Equipment and s Systems

Schedule Details

	St	End			
Events by Sub Project	Quarter	Year	Quarter	Year	
SOF Deployable Node					
Evolutionary Technology Insertions	1	2013	4	2018	
Special Communications Enterprise Program					
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	

	stification:	PB 2014 L	Jnited State	s Special C	Operations	Command			DATE: April 2013				
APPROPRIATION/BUDGET ACTI			-	PROJE									
0400: Research, Development, Tes 3A 7: Operational Systems Develo		tion, Defen	se-Wide		PE 1160	431BB: WA	RRIOR SYS	STEMS	S725: 7	actical Radio	Systems		
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 201 OCO #		4 FY 2015	FY 2016	FY 201	7 FY 2018	Cost To Complete	Total Cost	
S725: Tactical Radio Systems	-	0.000	0.000	1.699		- 1.6	99 3.67	5.637	1.6	97 1.69	2 Continuing	Continuin	
Quantity of RDT&E Articles													
[#] FY 2013 Program is from the FY	Y 2013 Pres	ident's Bu	dget, submi	tted Februa	ary 2012	1			1	4		4	
## The FY 2014 OCO Request wil	ll be submit	ted at a late	er date		-								
A. Mission Description and Budg	-												
This project is for development o													
in overseas contingency operation													
Traffic Control, commercial agen												cations	
between infiltrated/operational el	ements and	i nigner eci	neion neado	quarters, ai	lowing SC	F to opera	e with any to	orce combina	ition in m	uitipie enviro	nments.		
B. Accomplishments/Planned Pr	rograms (\$	in Million	<u>s)</u>							FY 2012	FY 2013	FY 2014	
Title: SOF Tactical Communication	ns (STC)									0.000	0.000	1.699	
FY 2014 Plans: Continues developing and testing	DoD on-orb	it canacity	in order to	enhance Ci	2 canahilit	ies							
		it capacity					Planned Pro	ograms Sub	totals	0.000	0.000	1.699	
C. Other Program Funding Sumr	marv (\$ in I	Millions)									t		
			<u>FY</u> 2	<u>2014 FY</u>	2014	FY 2014					<u>Cost To</u>		
Line Item	<u>FY 20</u>	<u>12 FY 2</u>	<u>013</u> <u>E</u>	<u>Base</u>	000	Total	<u>FY 2015</u>	FY 2016	FY 2017	<u>FY 2018</u>	<u>Complete</u>	Total Cos	
• PROC1: WARRIOR SYSTEMS	0.00	0. 00	000 210	.540		210.540	192.656	203.159	185.799	185.476	Continuing	Continuing	
<u>Remarks</u>													
D. Acquisition Strategy					0								
				with ETIs.	Commerc	cial and gov	ernment age	ency sources	will be le	everaged for	required cert	ifications,	
D. Acquisition Strategy STC is a commercial off-the-shel functional and operational tests, a				with ETIs.	Commerc	cial and gov	ernment age	ency sources	will be le	everaged for	required cert	ifications,	
functional and operational tests, a				with ETIs.	Commerc	cial and gov	ernment age	ency sources	will be le	everaged for	required cert	ifications,	
D. Acquisition Strategy STC is a commercial off-the-shel functional and operational tests, a				with ETIs.	Commerc	cial and gov	ernment age	ency sources	will be le	everaged for	required cert	ifications,	
 D. Acquisition Strategy STC is a commercial off-the-shel functional and operational tests, a E. Performance Metrics 				with ETIs.	Commerc	sial and gov	ernment age	ency sources	will be le	everaged for	equired cert	ifications,	

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	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: <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			
	. <u>.</u>	Subtotal	0.000	0.000		0.000		1.699		0.000		1.699					
All Prio Years		All Prior Years	FY 2	FY 2012 FY 2013		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

xhibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	ed St	ates	Sp	ecia	l Ope	erati	ons	Con	nmai	nd											DA	TE: /	Apri	1 20	13		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, A 7: Operational Systems Development	Defe	ense	-Wid	le							-			IOR		TEN	ЛS		PR S72			cal	Radi	io S	yste	ms		
		FY	2012	2		FY 2	2013	3		FY 2	2014	Ļ		FY 2	2015	5		FY 2	2016	;		FY	2017	7		FY	2018	3
	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	1																											

chibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	I Operations Commar	nd		DATE: /	April 2013
PPROPRIATION/BUDGET ACTIVITY 000: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development		MENCLATURE B: WARRIOR SYS	TEMS	PROJECT S725: Tactical Radi	o Systems
	Schedule Details	6			
		.			
		S	ırt		End
Events by Sub Project			ırt Year	Quarter	End Year
Events by Sub Project SOF Tactical Radios		Sta		Quarter	

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA 31BB: WARI	-		PROJECT S375: Wea	pons Syste	ms	
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: Weapons Systems	-	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 (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)

N/A

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

			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>				<u>Cost To</u>	
Line Item	<u>FY 2012</u>	FY 2013	Base	000	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	FY 2017	FY 2018 Complete Total Cost	
• PROC1:: WARRIOR SYSTEMS			210.540		210.540	192.656	203.159	185.799	185.476 Continuing Continuing	
<u>Remarks</u>										

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Spe	ecial Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160431BB: WARRIOR SYSTEMS	S375: Weapons Systems
BA 7: Operational Systems Development		
D. Acquisition Strategy		
N/A		
E Deufeumennes Metrice		
E. Performance Metrics N/A		

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20)13	
APPROPRIATION/BI 0400: Research, Dev BA 7: Operational Sys				NCLATU WARRIO		EMS	PROJE S375: V	CT Veapons S	Systems						
roduct Development (\$ in Millions)				FY 2	2012	FY 2	013	FY 2 Ba		FY 2 OC	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method Performing		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 2	2012	FY 2	013	FY 2 Ba		FY 2 OC	2014 CO	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

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 L	Inited State	s Special C	perations C	Command				DATE: Api	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide		1	NOMENCLA 31BB: WAR		TEMS	PROJECT S385: Sola Systems		on and Surv	ival
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:			

E: April 2013	
rotection and Sur	ırvival
FY 2013	FY 2014
0.000 0.000	0.34
0.000	1.06
0.000 0.000	2.33
Cost To 018 Complete 476 Continuing	Total Cos

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst	lopment,	Test & Evaluation,	Defense-	Wide			M NOME 0431BB:		I RE R SYSTE	MS	PROJE S385: S System	oldier Pro	otection a	nd Surviv	al
Product Developmen	t (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 Ise	FY 2 OC		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	
				_		_		0.040	Apr 2014	-		0.040	Continuing	Continuing	
	Various	PM-SSES:Natick, Ma	-	-											
SPEAR -Modular Glove System (MGS)	Various	PM-SSES:Natick, Ma Subtotal	0.000	0.000		0.000		0.250		0.000		0.250			
		Subtotal			2012	0.000 FY 2	2013	FY 2	2014 Ise	0.000 FY 2 OC		0.250 FY 2014 Total			
System (MGS)		Subtotal		0.000	2012 Award Date		2013 Award Date	FY 2	-	FY 2		FY 2014	Cost To Complete	Total Cost	Target Value of Contract
System (MGS) Test and Evaluation (Cost Category Item	S in Milli Contract Method	Subtotal	0.000	0.000 FY 2	Award	FY 2	Award	FY 2 Ba	Award Date	FY 2 OC	Award	FY 2014 Total Cost		Cost	Value of
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile	\$ in Milli Contract Method & Type	Subtotal ons) Performing Activity & Location	0.000 All Prior Years	0.000 FY 2 Cost	Award	FY 2 Cost	Award	FY 2 Ba Cost 0.050	Award Date	FY 2 OC Cost	Award	FY 2014 Total Cost 0.050	Complete	Cost Continuing	Value of
System (MGS) Test and Evaluation (\$ in Milli Contract Method & Type Various	Subtotal ions) Performing Activity & Location PM/SSES:Natick, Ma	0.000 All Prior Years	0.000 FY 2 Cost	Award	FY 2 Cost	Award	FY 2 Ba Cost 0.050 0.065	Award Date Jun 2014	FY 2 OC Cost	Award	FY 2014 Total Cost 0.050 0.065	Complete Continuing	Cost Continuing Continuing	Value of Contract
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile Characteristics LCS/BAV/Backpack Material and Prototype Testing	\$ in Milli Contract Method & Type Various Various	Subtotal ons) Performing Activity & Location PM/SSES:Natick, Ma PM-SSES:Natick, Ma	0.000 All Prior Years - -	0.000 FY 2 Cost -	Award	FY 2 Cost	Award	FY 2 Ba 0.050 0.065 0.020	Award Date Jun 2014 Jun 2014	FY 2 OC Cost - -	Award	FY 2014 Total Cost 0.050 0.065 0.020	Complete Continuing Continuing	Cost Continuing Continuing Continuing	Value of Contract
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile Characteristics LCS/BAV/Backpack Material and Prototype Testing MGS Testing	\$ in Milli Contract Method & Type Various Various Various	Subtotal ONS) Performing Activity & Location PM/SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma	0.000 All Prior Years	0.000 FY 2 Cost - -	Award	FY 2 Cost - -	Award	FY 2 Ba 0.050 0.065 0.020 0.025	Award Date Jun 2014 Jun 2014 Apr 2014	FY 2 OC Cost - -	Award	FY 2014 Total Cost 0.050 0.065 0.020 0.025	Complete Continuing Continuing Continuing	Cost Continuing Continuing Continuing Continuing	Value of Contract
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile Characteristics LCS/BAV/Backpack Material and Prototype Testing MGS Testing Soldier Load Analysis	\$ in Milli Contract Method & Type Various Various Various Various Various	Subtotal Ons) Performing Activity & Location PM/SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma	0.000 All Prior Years	0.000 FY 2 Cost - - -	Award	FY 2 Cost - - -	Award	FY 2 Ba 0.050 0.065 0.020 0.025 0.115	Award Date Jun 2014 Jun 2014 Apr 2014 May 2014	FY 2 OC Cost - - - -	Award	FY 2014 Total Cost 0.050 0.065 0.020 0.025 0.115	Complete Continuing Continuing Continuing Continuing	Cost Continuing Continuing Continuing Continuing	Value of Contract
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile Characteristics LCS/BAV/Backpack Material and Prototype	\$ in Milli Contract Method & Type Various Various Various Various Various Various Various	Subtotal Ons) Performing Activity & Location PM/SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma	0.000 All Prior Years	0.000 FY 2 Cost - - - -	Award	FY 2 Cost - - - -	Award	FY 2 Ba 0.050 0.065 0.020 0.025 0.115 0.404	Award Date Jun 2014 Jun 2014 Apr 2014 May 2014 Feb 2014	FY 2 OC Cost - - - -	Award	FY 2014 Total Cost 0.050 0.065 0.020 0.025 0.115 0.404	Complete Continuing Continuing Continuing Continuing Continuing	Cost Continuing Continuing Continuing Continuing Continuing	Value of Contract
System (MGS) Test and Evaluation (Cost Category Item SPEAR-PCU testing/P3I SPEAR-Signature Management Profile Characteristics LCS/BAV/Backpack Material and Prototype Testing MGS Testing Soldier Load Analysis Maritime Comms Testing	\$ in Milli Contract Method & Type Various Various	Subtotal Performing Activity & Location PM/SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma PM-SSES:Natick, Ma	0.000 All Prior Years	0.000 FY 2 Cost - - - - - -	Award	FY 2 Cost - - - - - - - -	Award	FY 2 Ba 0.050 0.065 0.020 0.025 0.115 0.404 0.345	Award Date Jun 2014 Jun 2014 Apr 2014 May 2014 Feb 2014 May 2014	FY 2 OC Cost - - - - - - - - - -	Award	FY 2014 Total Cost 0.050 0.065 0.020 0.025 0.115 0.404 0.345	Complete Continuing Continuing Continuing Continuing Continuing Continuing	Cost Continuing Continuing Continuing Continuing Continuing Continuing	Value of Contract

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2014 Unite	ed States S	pecial Operations	Command		DAT	E: April 20	13	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Defense-	Wide		I NOMENCLATU 431BB: <i>WARRIO</i>		PROJECT S385: Soldier P Systems	rotection ar	nd Survi	val
	All Prior Years	FY 201	2 FY 20	FY 2		2014 FY 2014 CO Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	0.000	2.336	0.000	2.33	6		

Remarks

thibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	ed S	tate	es S	pecia	al (Operati	ons C	Com	nmai	nd											DA	TE: A	\pril	20	13		
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, L 7: Operational Systems Development	Def	ense	e-W	ïde				R-1 I PE 1			-			-		TEN	1S		S3			lier F	Prote	ctio	n ar	nd S	urviv	al
		FY	20	12		F	FY 2013	3		FY 2	2014	4		FY 2	2015			FY	201	6	<u> </u>	FY	2017	,		FY	2018	3
	1	2	3	3 4	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)																	1							1				
PCU P3I																												
SPEAR-Signature Management																												-
Signature Management Profile Characterization																												
SPEAR-Modular Glove System																												-
Development and Test						ĺ																						-
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																												

perations Command		DATE: April 2013
R-1 ITEM NOMENCLATURE PE 1160431BB: WARRIOR SYSTEMS	PROJECT S385: Solo Systems	lier Protection and Survival
	R-1 ITEM NOMENCLATURE	R-1 ITEM NOMENCLATURE PROJECT PE 1160431BB: WARRIOR SYSTEMS \$385: Sold

Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
SPEAR-Protective Combat Uniform (PCU)				
PCU P3I	2	2013	3	2018
SPEAR-Signature Management				
Signature Management Profile Characterization	2	2013	2	2015
SPEAR-Modular Glove System			· · · · · · · · · · · · · · · · · · ·	
Development and Test	2	2013	2	2015
SPEAR-MICH COMMS				
Market Research/Interoperability Assessment	2	2013	2	2015
SPEAR-Maritime Comms				
Various tests	2	2013	3	2015
SPEAR-LCS/Vests and Backpacks				
Material Research and Prototype testing	3	2013	3	2015
RC-IED				
NAG Test Support	1	2014	1	2015
Tactical Combat Casualty Care Kts -CASEVAC				
Prototype development testing and Airworthiness Certification	1	2013	2	2015

	stification:	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Ap	ril 2013	
APPROPRIATION/BUDGET ACT		tion Defen	an Mala				-		PROJECT			A
0400: Research, Development, Te BA 7: Operational Systems Devel		tion, Defen	se-wiae		PE 116043	31BB: <i>WAR</i>	RIORSISI	EMS	Equipmen	-	Armor and	Associated
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 F	Y 2013 Pres	ident's Bu	dget, submi	tted Februa	iry 2012					1		
## The FY 2014 OCO Request with the FY 2014 OCO Request with the second	Il be submit	ted at a lat	er date									
A. Mission Description and Bud	aet Item Ju	stification	1									
This project provides specialized	-			ldier protec	tion and su	rvival requir	ements of S	SOF to inclu	ıde [.] Armv I	Rangers: Ai	mv Special	Forces:
Navy Sea, Air, Land (SEAL) teal												
ballistic equipment improves sur												
conducted in harsh environment												litereally
	-,				,		, , .					
This budget line enhances the S	PEAR progr	ram by sup	porting bod	v armor pla	ites, soft arr	nor, helmet	s, and eve r	protection.	lt also prov	des for the	research.	
development, and testing of a va												ted in the
National Defense Authorization	•	,			1.1			· · , · · · · ·				
	(*											
B. Accomplishments/Planned P	rograms (\$		<u>s)</u>						FY		FY 2013	
Title: SPEAR-Ballistic Protection												FY 2014
FY 2014 Plans:										0.000	0.000	FY 2014 1.554
										0.000	0.000	
Continue foreign ammunition testi										0.000	0.000	
Continue foreign ammunition testi effects studies to develop a helme	et test metho	dology an	d correspon	ding perfor	mance meti	rics. Contin	ue body arr	nor materia	I	0.000	0.000	
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th	et test metho e soldier loa	odology an ad analysis	d correspon research a	ding perfor nd perceptu	mance meti Jal encapsu	rics. Contin Ilation. Con	ue body arr tinue evalua	nor materia ation of		0.000	0.000	
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which	et test metho e soldier loa include ball	odology an ad analysis	d correspon research a	ding perfor nd perceptu	mance meti Jal encapsu	rics. Contin Ilation. Con	ue body arr tinue evalua	nor materia ation of		0.000	0.000	
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th	et test metho e soldier loa include ball	odology an ad analysis	d correspon research a	ding perfor nd perceptu	mance meti ual encapsu nomic and la	rics. Contin Ilation. Con aser lenses	ue body arr tinue evalua . Continue	nor materia ation of work on an	ii-			1.554
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which	et test metho e soldier loa include ball	odology an ad analysis	d correspon research a	ding perfor nd perceptu	mance meti ual encapsu nomic and la	rics. Contin Ilation. Con	ue body arr tinue evalua . Continue	nor materia ation of work on an	ii-	0.000	0.000	
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which	et test metho e soldier loa include ball	odology and ad analysis istic and o	d correspon research a	ding perfor nd perceptu	mance meti ual encapsu nomic and la	rics. Contin Ilation. Con aser lenses	ue body arr tinue evalua . Continue	nor materia ation of work on an	ii-			1.554
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which fogging technologies and testing.	et test metho e soldier loa include ball	odology and ad analysis istic and o	d correspon research a ptical testing	ding perfor nd perceptu g of photocl	mance metrual encapsu nomic and la	rics. Contin Ilation. Con aser lenses	ue body arr tinue evalua . Continue	nor materia ation of work on an	ii-			1.554
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which fogging technologies and testing . C. Other Program Funding Sum Line Item	et test metho e soldier loa include ball mary (\$ in M FY 20	odology and ad analysis istic and o Millions) 12 FY 2	d correspon research a ptical testing <u>FY 2</u> 013 <u>E</u>	ding perfor nd perceptu g of photocl 2014 FY Base	mance metri ual encapsu nomic and la Accomplis	rics. Contin Ilation. Con aser lenses shments/PI <u>Y 2014</u> <u>Total F</u>	ue body arr tinue evalua . Continue anned Prog Y 2015 F	nor materia ation of work on an g rams Sub	totals <u>FY 2017</u>	0.000 FY 2018	0.000 <u>Cost To</u> <u>Complete</u>	1.554 1.554 <u>Total Cos</u>
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which fogging technologies and testing . C. Other Program Funding Sum	et test metho e soldier loa include ball mary (\$ in N	odology and ad analysis istic and o Millions) 12 FY 2	d correspon research a ptical testing <u>FY 2</u> 013 <u>E</u>	ding perfor nd perceptu g of photocl	mance metri ual encapsu nomic and la Accomplis	rics. Contin Ilation. Con aser lenses shments/PI <u>Y 2014</u> <u>Total F</u>	ue body arr tinue evalua . Continue anned Prog Y 2015 F	nor materia ation of work on an g rams Sub	totals	0.000 FY 2018	0.000 Cost To	1.554 1.554 <u>Total Cos</u>
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which fogging technologies and testing . C. Other Program Funding Sum Line Item	et test metho e soldier loa include ball mary (\$ in M FY 20	odology and ad analysis istic and o Millions) 12 FY 2	d correspon research a ptical testing <u>FY 2</u> 013 <u>E</u>	ding perfor nd perceptu g of photocl 2014 FY Base	mance metri ual encapsu nomic and la Accomplis	rics. Contin Ilation. Con aser lenses shments/PI <u>Y 2014</u> <u>Total F</u>	ue body arr tinue evalua . Continue anned Prog Y 2015 F	nor materia ation of work on an g rams Sub	totals <u>FY 2017</u>	0.000 FY 2018	0.000 <u>Cost To</u> <u>Complete</u>	1.554 1.554 <u>Total Cos</u>
Continue foreign ammunition testi effects studies to develop a helme research and testing along with th transparent armor products which fogging technologies and testing . C. Other Program Funding Sum <u>Line Item</u> • PROC1: WARRIOR SYSTEMS	et test metho e soldier loa include ball mary (\$ in M FY 20	odology and ad analysis istic and o Millions) 12 FY 2	d correspon research a ptical testing <u>FY 2</u> 013 <u>E</u>	ding perfor nd perceptu g of photocl 2014 FY Base	mance metri ual encapsu nomic and la Accomplis	rics. Contin Ilation. Con aser lenses shments/PI <u>Y 2014</u> <u>Total F</u>	ue body arr tinue evalua . Continue anned Prog Y 2015 F	nor materia ation of work on an g rams Sub	totals <u>FY 2017</u>	0.000 FY 2018	0.000 <u>Cost To</u> <u>Complete</u>	1.554 1.554 <u>Total Cos</u>

180

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial 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: <i>WARRIOR SYSTEMS</i>	PROJECT S385A: Theater Body Armor and Associated Equipment
D. Acquisition Strategy		
N/A		
E. Performance Metrics		
N/A		

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	-							: April 20	13	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-\	Nide			-	NCLATU WARRIO	RE R SYSTE	MS	PROJE S385A: Equipm	Theater E	Body Arm	or and As	sociated
Product Developme	nt (\$ in M	illions)		FY 2	012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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 Milli	ions)		FY 2	012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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 2	012	FY 2	2013	FY 2 Ba		FY 2 OC	• • •	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

xhibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	d St	tates	Spe	ecia	l Op	erati	ions	Coi	mma	and											DA	ATE:	Apr	ril 2	013	j		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, A 7: Operational Systems Development	Defe	nse	-Wia	le								ENC : WA			E SYS	STEN	ЛS		S38				er Bo	ody	Arr	nor	and	Asso	ociateo
		FY	2012	2		FY	201	3		FY	201	4		FY	201	5		FY	2016	6		FY	′ 201	7		F	Y 20)18	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2 3	4	4	1	2	3	4
SPEAR-Body Armor																													
Body Armor Material Testing																													
SPEAR Eye Protection																													
Anti-Fogging Development																													
SPEAR Ballistic																													
Foreign Ammunition Testing																													
Threat Validation																													
SPEAR-Helmet																													
Market Lightweight Materials																													

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Op	erations 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: Th Equipment	eater Body Armor and Associated

Schedule Details

Sta	art	En	d
Quarter	Year	Quarter	Year
2	2012	3	2018
		- <u>-</u>	
2	2013	2	2015
2	2013	4	2017
2	2012	3	2018
2	2012	2	2013
	Quarter 2 2 2 2 2 2 2	2 2012 2 2013 2 2013 2 2013 2 2013 2 2012	Quarter Year Quarter 2 2012 3 2 2013 2 2 2013 2 2 2013 4 2 2012 3

Exhibit R-2A, RDT&E Project	Justification	: PB 2014 L	United State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 31BB: WAR	-	TEMS	PROJECT S395: Visu Sensor Sys	-	tation, Laser	s and
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

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Spe	ecial 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: <i>WARRIOR SYSTEMS</i>	PROJECT S395: Visual Augmentation, Lasers and Sensor Systems
clandestine operator-borne visual augmentation devices. These access the SOF operator.	sories greatly improve the combat effectiveness o	f the weapon systems and the survivability of
B. Accomplishments/Planned Programs (\$ in Millions) N/A		
<mark>C. Other Program Funding Summary (\$ in Millions)</mark> N/A		
Remarks		
D. Acquisition Strategy N/A		
<u>E. Performance Metrics</u> N/A		

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	lopment,	Test & Evaluation,	Defense-	Wide				NCLATU WARRIO		EMS		CT ′isual Aug Systems	mentation	n, Lasers	and
Product Developmer	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 OC		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 2	2012	FY 2	2013	FY 2 Ba		FY 2 OC		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

,,,	Justification:	PB 2014 C		s Special C		ommand				DATE: A	pril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	ise-Wide			NOMENCLA 31BB: WAR	-	TEMS	PROJEC S800: <i>Mu</i>		vanced Deve	elopment
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 B Complete	
S800: Munitions Advanced Development	-	0.000	0.000	3.498	-	3.498	0.519	0.013	0.000	0.00	0 Continuing	g Continuing
Quantity of RDT&E Articles												
A. Mission Description and Bu This project funds advanced e Non-Standard Materiel (NSM).	ngineering, op . This program	perational s m provides	system deve for Insensit	ive Munitior	ns (IM) tech	nology deve	elopment ar	nd evaluatio	ns that allo	ws SOF n	nunitions to p	
which includes bullet impact, s Operations IM Testing Plan.								-				
Operations IM Testing Plan. Stand-Off Precision Guided M	unitions (SOP	PGM) provic	des for the d					-		Y 2012	FY 2013	FY 2014
Operations IM Testing Plan.	unitions (SOP	PGM) provic	des for the d					-				
Operations IM Testing Plan. Stand-Off Precision Guided M B. Accomplishments/Planned Title: NSM FY 2014 Plans: Conducts proof of principle and Military Standard 2105C (Depar	unitions (SOP Programs (\$ IM testing on	PGM) provic in Millions	des for the d s) unitions. Co	levelopmen	nt and impro	vement of S	SOF-unique	SOPGMs.	F	Y 2012	FY 2013	FY 2014
Operations IM Testing Plan. Stand-Off Precision Guided M <u>B. Accomplishments/Planned</u> <i>Title:</i> NSM <i>FY 2014 Plans:</i>	unitions (SOP Programs (\$ IM testing on	PGM) provic in Millions	des for the d s) unitions. Co	levelopmen	nt and impro	vement of S	SOF-unique	SOPGMs.	F	Y 2012	FY 2013	FY 2014
Operations IM Testing Plan. Stand-Off Precision Guided M <u>B. Accomplishments/Planned</u> <i>Title:</i> NSM <i>FY 2014 Plans:</i> Conducts proof of principle and Military Standard 2105C (Depar 26 Sep 2006).	unitions (SOP <u>Programs (</u> \$ IM testing on tment of Defe	PGM) provid <u>in Millions</u> various mu ense Test an	des for the d <u>s)</u> unitions. Co nd Method S uidance sys	levelopmen ontinues full Standard: I	scale testin Hazard Asso	vement of S ng to satisfy essment Te	SOF-unique safety requ st for Non-f	SOPGMs. irements in Nuclear Mur	nition,	Y 2012 0.000	FY 2013 0.000	FY 2014 0.468

Exhibit R-2A, RDT&E Project Justi	fication: PB	2014 United	States Spe	cial Operatic	ons Commar	ıd			DATE: April 2013
APPROPRIATION/BUDGET ACTIVI 0400: Research, Development, Test BA 7: Operational Systems Developr	& Evaluation	, Defense-W	lide		ЕМ NOMEN 60431BB: И	-	<i>YSTEMS</i>	PROJEC S800: Mu	T Initions Advanced Development
C. Other Program Funding Summa	ary (\$ in Milli	ions <u>)</u>							
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>				<u>Cost To</u>
Line Item	<u>FY 2012</u>	FY 2013	Base	000	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 2018 Complete Total Cost
• PROC1: : WARRIOR SYSTEMS	0.000	0.000	210.540		210.540	192.656	203.159	185.799	185.476 Continuing Continuing
Pomarke									

<u>Remarks</u>

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-3, RDT&E I	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide				NCLATU WARRIO	I RE R SYSTE	MS	PROJE S800: <i>N</i>	CT Aunitions J	Advanced	l Develop	ment
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	013		2014 Ise	FY 2 O(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 2	2012	FY 2	013		2014 Ise	FY 2	2014 CO	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

xhibit R-4, RDT&E Schedule Profile: PB 2014	4 Unite	ed St	ates	Spe	cial	l Ope	ratic	ons C	Com	nma	nd											DA	TE:	Apr	il 20)13		
PPROPRIATION/BUDGET ACTIVITY								R-1 I			-			-					1	OJE								
00: Research, Development, Test & Evaluation A 7: Operational Systems Development	n, Defe	ense	-Wia	le			F	PE 1	160)431	IBB:	: WA	RR	IOR	SYS	STE	MS		S8	00:	Mur	nitior	าร A	dvai	nce	d De	eveloj	pmei
		FY 2012 FY 201								FY	201	4		FY	201	5		FY	201	6		FY	20 1	17	\top	F١	Y 201	8
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	: 3	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																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Oper	rations 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: <i>Munitions Advanced Development</i>

Schedule Details

	Sta	art	En	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Non-Standard Materiel			· · · ·	
Purchase Test Articles	2	2012	2	2014
NSM			- L	
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

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 L	Inited State	s Special C	perations C	Command				DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, 7 BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide		1	NOMENCLA 31BB: WAR		TEMS	PROJECT D476: <i>Milit</i> Operations	ary Informa	tion Support	
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.

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, proadcast 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

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 United	States Spe	cial Operatio	ons Comman	d			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	/STEMS	PROJEC D476: Mil Operation	itary Inform	nation Suppo	ort						
C. Other Program Funding Summa	ary (\$ in Milli	ons <u>)</u>									
Line Item • PROC1: WARRIOR SYSTEMS	<u>FY 2012</u> 0.000	<u>FY 2013</u> 0.000	FY 2014 Base 210.540	<u>FY 2014</u> <u>OCO</u>	FY 2014 <u>Total</u> 210.540	<u>FY 2015</u> 192.656	<u>FY 2016</u> 203.159	<u>FY 2017</u> 185.799			<u>Total Cost</u> Continuing
<u>Remarks</u>											

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.

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	d States	Special	Operation	s Comma	and				DATE	: April 20)13	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-\	Nide				NCLATU WARRIO	RE R SYSTE	MS	PROJE D476: M Operati	Ailitary Info	ormation	Support	
Product Development (\$ in Millions)			FY 2	2012	FY 2	013	FY 2 Ba	2014 Ise		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 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 2	2012	FY 2	013	FY 2 Ba	2014 ISE	FY 2 OC	2014 CO	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

Exhibit R-4, RDT&E Schedule Profile: PB 201	4 Unit	ed S	ates	Spe	ecial	Ope	eratio	ons (Con	nmar	nd											DA	TE: /	April	20	13		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluatio 3A 7: Operational Systems Development	n, Def	ense	-Wid	e							-			TUR IOR	E SYS	TEN	1S		D4	OJE 76: I erati	Milita	-	Infor	mati	on (Supp	oort	
		FY	2012	2		FY 2	2013			FY 2	2014	L		FY	2015			FY	2016	6		FY	201	7		FY	201	8
	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
MISO Broadcast System																												
Hardware development and systems engineering																												

hibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		DATE	April 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160431BB: WARRIOR SYST	EMS	PROJECT D476: Military Info Operations	rmation Support
	Schedule Details			
	Schedule Details	t		End
Events by Sub Project		t Year	Quarter	
Events by Sub Project MISO Broadcast System	Star		Quarter	

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter				ales Specia	•					DATE: Apr	11 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T		ation, Defen	se-Wide		R-1 ITEM N PE 1160432	-	-	5				
3A 7: Operational Systems Deve	lopment											
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	7.424	-	7.424	4.408	1.624	1.641	1.676	Continuing	Continuir
S500E: Special Programs	-	0.000	0.000	7.424	-	7.424	4.408	1.624	1.641	1.676	Continuing	Continuir
[#] FY 2013 Program is from the F	Y 2013 Pre	sident's Bud	lget, submi	ted Februa	ry 2012	I	I			1	1	I
# The FY 2014 OCO Request w			-									
A. Mission Description and Bud	dget Item Ju	ustification										
Details provided under separate	-											
3. Program Change Summary (\$ in Million	<u>s)</u>		FY 2012	<u>FY 2013</u>	<u>B</u> <u>F</u>	Y 2014 Bas	e	FY 2014 O	<u>co</u>	FY 2014 To	otal
Previous President's Bud	get			0.000	0.000)	0.00	0		-	0.0	000
Current President's Budge	et			0.000	0.000)	7.42	24		-	7.4	424
Total Adjustments				0.000	0.000)	7.42	24		-	7.4	424
Congressional C	General Red	uctions		-	-							
Congressional E	Directed Rec	luctions		-	-							
Congressional F	Rescissions			-	-							
Congressional A	\dds			-	-							
Congressional E	Directed Tra	nsfers		-	-							
Reprogramming	IS			-	-							
• SBIR/STTR Tra				-	-							
 Details provided 	l under sepa	rate cover		-	-		7.42	24		-	7.4	424

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Spec						ns Comman	ıd		DATE: April 2013			
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel	est & Evalua	tion, Defense-Wide PE 1160474BB: SOF Communications Equipment and Electronics Syst					Systems					
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833
S700: SOF Communications Equipment and Electronics Sys	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833

[#] 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 FY2014, this Program Element (PE) 1160404BB, SOF Communications Equipment and Electronics has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

A. Mission Description and Budget Item Justification

This program element provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1.392	2.225	2.428	-	2.428
Current President's Budget	1.356	2.225	0.000	-	0.000
Total Adjustments	-0.036	0.000	-2.428	-	-2.428
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.036	-			
Other Adjustments.	-	-	-2.428	-	-2.428

Change Summary Explanation

Funding:

FY 2012: Decrease of \$0.036 million due to a transfer of funds to Small Business Innovative Research.

PE 1160474BB: SOF Communications Equipment and Electronics Syste... United States Special Operations Command

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Speci	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160474BB: SOF Communications Equipment and E	Electronics Systems
BR T. Operational Systems Development		

FY2013: None.

FY2014: Decrease of \$2.428 million is due to beginning in FY2014, this Program Element has been consolidated into SOCOM Program Element 1160431BB.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command									DATE: April 2013				
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide		PE 116047	ABB: SOF	Communica		PROJECT S700: SOF Electronics	OF Communications 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	
S700: SOF Communications Equipment and Electronics Sys	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833	
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). The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, 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.

United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that C4 systems continue to provide SOF with the required capabilities throughout the 21st century. 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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014	
Title: SDN	1.356	2.225	0.00	
<i>FY 2012 Accomplishments:</i> Continued Worldwide Global Satellite certification testing of new SDN systems. Began evaluation and integration of new basebands into the SDN family. Continued testing and evaluation of new and modified SDN systems and components, such as SATCOM on-the-move (SOTM) and technologies to extend SIE services through SDN systems. Tested and evaluated 1.2-meter inflatable antennas, and completed testing of a new Tactical Beyond Line of Sight technology.				
FY 2013 Plans:				

Exhibit R-2A, RDT&E Project Just	tification: PB	2014 United	States Spe	cial Operatic	ons Commar	ld			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	PE 11	EM NOMEN 60474BB: S ment and Ele	OF Commur				ommunications Equipment and vs				
B. Accomplishments/Planned Pro	ograms (\$ in I	<u>/lillions)</u>							FY 2012	FY 2013	FY 2014
Continue to develop, test, and evalu generation medium terminal. Also, hand-held 3G/4G technology.								g			
				Accor	nplishment	s/Planned P	rograms Su	btotals	1.356	2.225	0.000
C. Other Program Funding Summ <u>Line Item</u> • PROC3: COMMUNICATIONS EQUIPMENT AND ELECTRONICS Remarks	a ry (\$ in Milli <u>FY 2012</u> 171.602	<u>ons)</u> FY 2013 99.989	<u>FY 2014</u> <u>Base</u> 0.000	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u> 0.000	<u>FY 2015</u> 0.000	<u>FY 2016</u> 0.000	FY 201 0.000		<u>Cost To</u> <u>Complete</u> 0.000	Total Cos
 D. Acquisition Strategy SDN is a fielded program with E certifications, functional and operations 		-		nd light varia	nts. Comme	ercial and go	vernment ag	ency sou	rces will be le	everaged for	required

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operation	s Comma	and				DATE	: April 20	3	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 7: <i>Operational Sys</i>	elopment,	Test & Evaluation,	Defense-	Wide		PE 116	M NOME 0474BB: ent and E	SOF Con	nmunicati				municatior	as Equipr	ment and
Product Developme	nt (\$ in Mi	llions)		FY	2012	FY 2	2013		2014 Ise	FY 2 O(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 Complete	Total Cost	Target Value of Contract
SOF Deployable Node	Various	Various:Various	1.599	1.356	Nov 2011	2.225	Nov 2012	-		-		-	0.000	5.180	
Prior Year Funding - Completed Efforts	C/Various	various:various	114.653	-		-		-		-		-	0.000	114.653	
		Subtotal	116.252	1.356		2.225		0.000		0.000		0.000	0.000	119.833	
			All Prior Years	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 O(2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	116.252	1.356		2.225		0.000		0.000		0.000	0.000	119.833	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2	.014 Un	ited	States	Spe	ecial	Ope	eratic	ons (Com	man	d										DA	Γ Ε : /	٩pril	201	3		
PROPRIATION/BUDGET ACTIVITYR-1 ITEM NOMENCLATUREPROJECT00: Research, Development, Test & Evaluation, Defense-WidePE 1160474BB: SOF Communications Equipment and Electronics SystemsS700: SOF Electronics												SOF			inice	ation	s Eq	luipn	nent								
	Γ	F	Y 201	2		FY	2013			FY 2	014		F	Y 2015			FY 2	2016			FY	2017	7		FY :	2018	
		1 '	2 3	4	1	2	3	4	1	2	3 4	4 ·	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4
		• • •		-	-	-	•	-	•	-	-		•		-	•	-	•	•			-	-			-	
SOF Deployable Node		• <u> </u>		-			U	-	•	-	•	•	•		-	•	-	U	•	•	-		-	•			

xhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		DATE: Apri	il 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160474BB: SOF Communica Equipment and Electronics System	tions S	ROJECT 700: SOF Communica lectronics Sys	ations Equipment
	Schedule Details			
	Schedule Details	t	Er	nd
Events by Sub Project		t Year	Er Quarter	nd Year
Events by Sub Project SOF Deployable Node	Star	-		

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Ite	m Justificat	ion: PB 20 ⁻	14 United S	tates Speci	al Operatio	ns Comman	ıd			DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, 7 BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 76BB: SOF	-	dio Systems				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	58.556	0.000	3.036	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	61.592
S725: SOF Tactical Radio Systems	58.556	0.000	3.036	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	61.592

[#] 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

<u>Note</u>

Beginning in FY 2014, this Program Element (PE) 1160476BB, SOF Tactical Radio Systems has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

A. Mission Description and Budget Item Justification

This program element is for development of all Special Operations Forces (SOF) tactical radio programs. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. 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 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	3.036	3.089	-	3.089
Current President's Budget	0.000	3.036	0.000	-	0.000
Total Adjustments	0.000	0.000	-3.089	-	-3.089
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Other adjustments.	-	-	-3.089	-	-3.089

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s 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 1160476BB: SOF Tactical Radio Sy	stems
Change Summary Explanation Funding:		
FY 2012: None.		
FY 2013: None.		
FY 2014: Decrease of \$3.089 million due to beginning in FY2014	4, this Program Element (PE) 1160476BB has b	peen consolidated into SOCOM PE 1160431BB
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project	Justification:	PB 2014 L	Jnited State	s Special C	Operations C	Command				DATE: Ap	ril 2013	
APPROPRIATION/BUDGET A						NOMENCL			PROJECT			
)400: Research, Development, 3A 7: Operational Systems Dev		tion, Defer	se-Wide		PE 11604 Systems	76BB: SOF	Tactical Ra	dio	S725: SOF	F Tactical F	adio Syster	ns
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: SOF Tactical Radio Systems	58.556	0.000	3.036	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	61.592
Quantity of RDT&E Articles												
^{##} The FY 2014 OCO Request	udget Item Ju	stification	<u>ı</u> adio progran									
<i>Title:</i> SOF Tactical Communica FY 2013 Plans: Develop and test DoD on-orbit	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC)	erall strateg he critical C perability w seamlessly rate with ar in Million ler to enha	y to ensure C3 link betwo vith all Servio establish any force com <u>s)</u> nce C2 capa	that Tactica een SOF C ces, variou nd maintair nbination in	al Radio Sy commanders s agencies n mobile and n multiple en	stems contin and SOF 1 of the U.S. (d fixed C2 c vironments.	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee	h the requir seas contin control, cc n infiltrated	ed capabili gency oper ommercial a /operationa	ations (OCC	out)) and id allied and higher FY 2014
to provide a maximum degree mobility. USSOCOM has dev the 21st century. Tactical Ra training exercises. They also foreign forces. Tactical Radio echelon headquarters, allowin B. Accomplishments/Planned Title: SOF Tactical Communica FY 2013 Plans: Develop and test DoD on-orbit	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC)	erall strateg he critical C perability w seamlessly rate with ar in Million ler to enha	y to ensure C3 link betwo vith all Servio establish any force com <u>s)</u> nce C2 capa	that Tactica een SOF C ces, variou nd maintair nbination in	al Radio Sy commanders s agencies n mobile and n multiple en he STC prog	stems contin and SOF 1 of the U.S. (d fixed C2 c vironments.	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee Special Miss	h the requir seas contin control, cc n infiltrated FY	red capabili gency oper ommercial a /operationa 7 2012 0.000	rations (OCC agencies, ar al elements a FY 2013 3.036	out D) and Id allied and higher FY 2014 0.000
to provide a maximum degree mobility. USSOCOM has dev the 21st century. Tactical Ra training exercises. They also foreign forces. Tactical Radio	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC)	erall strateg he critical C perability w seamlessly rate with ar in Million ler to enha	y to ensure C3 link betwo vith all Servio establish any force com <u>s)</u> nce C2 capa	that Tactica een SOF C ces, variou nd maintair nbination in	al Radio Sy commanders s agencies n mobile and n multiple en he STC prog	stems contin and SOF 1 of the U.S. (d fixed C2 c vironments.	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee	h the requir seas contin control, cc n infiltrated FY	ed capabili gency oper ommercial a /operationa	rations (OCC agencies, ar al elements a FY 2013	out)) and Id allied and higher
to provide a maximum degree mobility. USSOCOM has dev the 21st century. Tactical Ra training exercises. They also foreign forces. Tactical Radio echelon headquarters, allowin B. Accomplishments/Planned Title: SOF Tactical Communica FY 2013 Plans: Develop and test DoD on-orbit	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC) capacity in ord (Intra Team R	erall strateg he critical C perability w seamlessly rate with ar in Million der to enha adio, and th	y to ensure 23 link betwo vith all Servio establish any force com <u>s)</u> nce C2 capa he Multi-Bar	that Tactica een SOF C ces, variou nd maintair nbination in abilities. Th nd, Multi-Mi	al Radio Sy commanders s agencies n mobile and n multiple en he STC prog ission Radio Accomplis	gram incorp b. b. b. b. b. b. b. b. b. b. b. b. b.	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee Special Miss	h the requir seas contin control, cc n infiltrated FY	red capabili gency oper ommercial a /operationa 7 2012 0.000	ations (OCC agencies, ar al elements a FY 2013 3.036 3.036	out D) and Id allied and higher FY 2014 0.000
to provide a maximum degree mobility. USSOCOM has dev the 21st century. Tactical Ra training exercises. They also foreign forces. Tactical Radio echelon headquarters, allowin B. Accomplishments/Planned Title: SOF Tactical Communica FY 2013 Plans: Develop and test DoD on-orbit Radio System, Multi-Band Inter C. Other Program Funding Su	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC) capacity in ord /Intra Team R	erall strateg he critical C perability w seamlessly rate with ar in Millions der to enha adio, and the Millions)	y to ensure 23 link betwo vith all Servio establish any force com s) nce C2 capa he Multi-Bar	that Tactica een SOF C ces, variou nd maintair nbination in abilities. Th nd, Multi-Mi 2014 FY	al Radio Sy commanders s agencies n mobile and n multiple en he STC pro- ission Radio Accomplis	and SOF 1 of the U.S. (d fixed C2 c vironments. gram incorp b. shments/PI	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee Special Miss grams Sub	h the requir seas contin control, co n infiltrated FY sion totals	ed capabili gency oper ommercial a /operationa 7 2012 0.000	rations (OCC agencies, ar al elements a FY 2013 3.036 3.036 Cost To	out D) and Id allied and higher FY 2014 0.000
to provide a maximum degree mobility. USSOCOM has dev the 21st century. Tactical Ra training exercises. They also foreign forces. Tactical Radio echelon headquarters, allowin B. Accomplishments/Planned Title: SOF Tactical Communica FY 2013 Plans: Develop and test DoD on-orbit Radio System, Multi-Band Inter	of survivabilit eloped an ove dios provide t provide intero s rapidly and g SOF to ope Programs (\$ tions (STC) capacity in orc (Intra Team R mmary (\$ in FY 20	he critical C perability w seamlessly rate with ar in Millions der to enha adio, and the Millions) 12 FY 2	y to ensure 23 link betwo vith all Servio establish any force com <u>s)</u> nce C2 capa he Multi-Bar <u>FY 2</u> 013 <u>E</u>	that Tactica een SOF C ces, variou nd maintair nbination in abilities. Th nd, Multi-Mi	al Radio Sy commanders s agencies n mobile and n multiple en he STC prog ission Radio Accomplis	and SOF 1 of the U.S. (d fixed C2 c vironments. gram incorp b. shments/PI	nue to provi Feams invol Governmen ommunicati	ide SOF wit lved in over t, Air Traffic ions betwee Special Miss grams Sub	h the requir seas contin control, cc n infiltrated FY	ed capabili gency oper ommercial a /operationa 7 2012 0.000	ations (OCC agencies, ar al elements a FY 2013 3.036 3.036	out D) and Id allied and higher FY 2014 0.000

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	perations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160476BB: <i>SOF Tactical Radio</i> <i>Systems</i>	PROJECT S725: SOF Tactical Radio Systems
E. Performance Metrics N/A	·	
N/A		

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 201	13	
APPROPRIATION/B 0400: <i>Research, Dev</i> BA 7: <i>Operational Sy</i>			6 M NOME 0476BB: - s			0	PROJE S725: S		cal Radio S	Systems					
Product Developme	nt (\$ in Mi	FY	2012	FY 2	2013		2014 Ise		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 Complete	Total Cost	Target Value of Contract
SOF Tactical Communications (STC)	Reqn	Various:Various	2.277	-		3.036	Jan 2013	-		-		-	0.000	5.313	
Prior Year Funding - Completed Efforts	MIPR	Various:Various	56.279	-		-		-		-		-	0.000	56.279	
		Subtotal	58.556	0.000		3.036		0.000		0.000		0.000	0.000	61.592	
			All Prior Years	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	58.556	0.000		3.036		0.000		0.000		0.000	0.000	61.592	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	d St	ates	Spe	ecial	Ор	erati	ions	s Cor	nma	nd											DAT	E: A	\pril	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Defe	nse	-Wid	e				PE	1 ITE 116 stem	0476					_	ndio			PR S72			Tac	tical	Rad	lio S	Syste	ms	
		FY	2012	2		FY	2013	3		FY	2014	ļ		FY 2	2015	;		FY 2	2016			FY 2	2017	,		FY 2	018	5
	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																												

whibit R-4A , RDT&E Schedule Details: PB 2014 United States Special	I Operations Command			DATE: April	l 2013
PPROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATU PE 1160476BB: SOF Tac Systems		PRO S725	JECT : SOF Tactical Ra	dio Systems
	Schedule Details				
	Schedule Details	Start		En	ıd
Events by Sub Project	Schedule Details		ear	En Quarter	ıd Year
Events by Sub Project SOF Tactical Radios			ear		-

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20 ⁻	14 United S	tates Speci	al Operatio	ns Comman	ıd			DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ntion, Defen	se-Wide			NOMENCLA 7BB: SOF	ATURE Weapons S	ystems				
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	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

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

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)	<u>FY 2012</u>	<u>FY 2013</u>	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
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	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

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s 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	
Accessories for development of the Visual Augmentation Sight O (\$-0.067 million).	optics - Optimizer (\$0.212 million); and a transfer of fu	inds to Small Business Innovative Research
FY 2013: None.		
FY 2014: No change.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA 7BB: SOF	-	ystems	PROJECT S375: SOF	Weapons	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
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												

[#] 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 (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:			

Exhibit R-2A, RDT&E Project Justi	ification: PB	2014 United	States Spe	cial Operatio	ns Comman	d			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	& Evaluation,	Defense-W	lide	1	EM NOMEN 60477BB: S		s Systems	PROJE S375: S	E CT SOF Weapon	s Systems	
B. Accomplishments/Planned Prog	grams (\$ in N	<u>/lillions)</u>							FY 2012	FY 2013	FY 2014
Conducted market research, purchasuser assessment that supports the V				articles, ope	rational and	developmen	tal testing ar	nd field			
FY 2013 Plans: Continue development of VAS and F operational and developmental testin							test articles,				
				Accon	nplishments	s/Planned P	rograms Su	btotals	3.002	1.511	0.000
C. Other Program Funding Summa		,	FY 2014	FY 2014	FY 2014					Cost To	
Line Item • PROC: SMALL ARMS AND WEAPONS	<u>FY 2012</u> 24.747	<u>FY 2013</u> 27.108	<u>Base</u> 0.000	<u>000</u>	<u>Total</u> 0.000	FY 2015 0.000	<u>FY 2016</u> 0.000	<u>FY 201</u> 0.00		Complete 0.000	
<u>Remarks</u>											
 D. Acquisition Strategy FSWS. Develops, tests, and eva pre-planned product improvement a WPNAC. Develops, tests, and e improved target recognition, acquis SOF weapons systems. Devices v Develops next generation suppress enemy combatants. 	and increment valuates accessition and hit over the second	ital develop essories to c capability du e SOF opera	ment based on optimize the e pring day and ator with the	on technolog effectiveness I night from o ability to eng	ical advance s of all SOF v close quarter gage enemy	es. weapons in c s to maximu combatants	order to incre m effective r	ease their ange of e conditior	operational e ach weapon. Is utilizing SC	ffectiveness Develops V)F weapons	through AS for systems.
E. Performance Metrics F. Major Performers											
Activity/Location Naval System Warfare Center-Cra	ne/Crane, Ind	liana	Descri System Eng	iption gineering, de	velopmental	and operati	onal testing	V	Proje /arious	ect	

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operation	is Comma	ind				DATE	: April 20	13	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide			M NOME 0477BB: (stems	PROJE S375: S	CT SOF Weap	oons Syst	ems	
Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 O(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 Complete	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	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 Complete	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	ions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 O(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 Complete	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

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	d States	Special (Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-V	Vide				SOF Wea		stems	PROJE S375: S	CT SOF Weap	oons Syst	ems	
Test and Evaluation				FY	2012	FY 2	013	FY 2 Ba		FY 2 OC	2014 20	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
PSR	C/FFP	NSWC-Crane:Crane, IN	0.471	0.092	Mar 2012	-		-		-		-	Continuing	Continuing	Continuin
Prior Years - Completed Efforts	C/FFP	NSWC-Crane:Crane, IN	1.183	-		-		-		-		-	Continuing	Continuing	Continuin
		Subtotal	4.693	1.379		0.200		0.000		0.000		0.000			
			All Prior Years	FY	2012	FY 2	013	FY 2 Ba	2014 se	FY 2 OC		FY 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

xhibit R-4, RDT&E Schedule Profile: PB 2014 U	Inite	d St	ates	Spe	cial	Оре	erati	ons	Corr	nmar	nd											DA	TE: /	Apr	il 20	13			
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, L A 7: Operational Systems Development	Defe	ense	-Wide	9			I			M N()477						Syst	em	IS		ROJE 75: 3		We	eapo	ns	Syst	ems			
		FY	2012			FY 2	201:	-	1	FY 2		1		r	2015	5		_	201	_	1	FY 2	201	_	1	_	201		
Weapons Accessories -Visual Augmentation Systems Development	1	2	3	4	1	2	3	4		2	3	4	1	2	3	4	1		2 3	4		2	3	4			3	4	
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]	

hibit R-4, RDT&E Schedule Profile: PB 20	14 Unite	ed St	ates	Spe	cial	Оре	eratio	ons	Con	nma	nd											DA	TE: /	April	201	13		
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluati A 7: Operational Systems Development	ion, Defe	ense	-Wid	е								E NC SOI			e Ins S	Syste	ems		PR S37			We	apo	ns S	syste	ems		
		FY :	2012			FY 2	2013	3		FY :	2014	Ļ		FY 2	2015			FY 2	2016	;		FY	201	7		FY	2018	3
	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 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

Schedule Details

	Sta	nrt	En	d
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			1	
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 Speci	ial Operations Comma	nd			DATE: Ap	ril 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide 3A 7: Operational Systems Development	T F Weapons	Systems						
		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		
Production Contract Award		2	2013		2	2013		

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20	14 United St	tates Speci	al Operation	ns Comman	d			DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA '8BB: Soldie	-	n and Survi	val Systems	5		
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	4.521	2.647	4.263	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.431
S385: Soldier Protection and Survival Systems	4.521	1.776	3.383	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.680
S385A: Theater Body Armor and Associated Equipment	0.000	0.871	0.880	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.751

[#] 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

<u>Note</u>

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

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

A. Mission Description and Budget Item Justification

This program element provides for development, testing, and integration of specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF). Specialized equipment will improve survivability and mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods, and in locations requiring small unit autonomy.

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

xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
100: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	PE 1160478BB: Soldier Protection and Sur	vival Systems
Change Summary Explanation		
Funding:		
FY 2012: Decrease of (-\$0.077) million is due to a funds transfe command priorities.	er to Small Business Innovative Research and -(\$0.2	247) million was reprogrammed for higher
FY 2013: None.		
FY 2014: Decrease of of -\$3.890 million has been consolidated Schedule: None.	in SOCOM PE 1160431BB "Warrior Systems."	
Technical: None.		

Exhibit R-2A, RDT&E Project	Justification	: PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 78BB: Soldie ystems	-	n and	PROJECT S385: Sola Systems		on and Survi	val
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	4.521	1.776	3.383	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.680
Quantity of RDT&E Articles												

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

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

• This project provides specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF) to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Special Tactics Operators; and Marine Forces Special Operations Command. Specialized equipment improves survivability protection from the environment and load bearing equipment to improve the mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.

• SOF Personal Equipment Advanced Requirements (SPEAR) program provides for the research, development, testing and evaluation of a variety of individual and survival equipment to include: ballistic and environmental protective systems, combat uniforms, load carriage systems, communications headsets, and visual augmentation system (VAS) mounts. NOTE: In compliance with the National Defense Authorization Act of 2010, resources to support ballistic protection efforts were moved from SPEAR to a separate project (S385A) beginning in FY 2012.

• Tactical Combat Casualty Care (TCCC) provides medical devices, ancillary equipment and Casualty Evacuation (CASEVAC) sets for SOF. The CASEVAC program procures a suite of Food and Drug Administration approved medical items including, but not limited, to intraosseous infusion devices, patient monitoring and assessment devices, emergency airway kits, as well as devices that provide SOF the capability to support extraction, extrication, mobility, transportation, and sustainment of casualties in forward areas. This program fields tactical medical and CASEVAC capabilities with the intention to transition capabilities developed under the National Mission Force Tactical Medical Programs. This capability provides significant ability to lessen battlefield losses by providing timely, critical lifesaving and evacuation capabilities to the forward-deployed SOF operators.

• Radio Counter-Improvised Explosive Device (RC-IED) program provides SOF with the ability to counter current and future radio controlled improvised explosive devices threats used by terrorist networks. NOTE: The RC-IED efforts were conducted in the program element 1160408BB. The resources for these efforts were split beginning in FY 2013 to support the SOF theater force requirements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: SPEAR	1.776	2.350	0.000
FY 2012 Accomplishments:			

Exhibit R-2A, RDT&E Project Justif	ication: PB	2014 United	States Spe	cial Operatio	ons Commar	ld			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIVIT 0400: Research, Development, Test & BA 7: Operational Systems Developm	& Evaluation,	Defense-W	lide	PE 11	EM NOMEN 60478BB: S al Systems	CLATURE	ction and	PROJEC S385: So Systems	oldier Prote	ction and Su	rvival
B. Accomplishments/Planned Prog	rams (\$ in N	(Aillions)							TY 2012	FY 2013	FY 2014
Continued Flame/Blast characterization performance of current material soluti increased thermal protective capabilit (P3I). Completed characterization effect performance materials for personal are investigating perceptual encapsulation acoustics testing of Modular Integrate lethality and survivability. Initiated test operator during mobility operations. Of the battlefield.	ons, maturity ies of the pro- ects of tempo- nd load carri n and load e ed Communic sting and val	y of technolo otective com erature on h age equipm ffects on su cations Heln idation of test	bgy and to le bat uniform igh loft textile ent. Initiated rvivability an net individua st methodolo	everage dolla and validations. Continue testing of with testing of with the testing of with the testing of with the testing of with the testing of	ars spent from on of pre-placed developm vaterproof br ship. Contin ations heads ety belts and	n other Serv nned produc lent of lightw eathable ma nued Radio F ets to enhan lanyards us	vices]. Contin et improveme veight/high tterials. Cond Frequency, nee operator ed to protect	nts ducted the			
FY 2013 Plans: Provide continuation of profile refinem uniforms. Develops a solicitation for a In addition, test of nano-coatings for v on load effects for survivability and ma	an advanced vater repelle	l maritime co ncy for indiv	ommunicatio	ns system.	Develop and	test safety	belt, lanyard	efforts.			
Title: RC-IED									0.000	1.033	0.00
FY 2013 Plans: Provide for National Assessment Grot test article acquisition, and market res ability to accurately test against current	search of the	RC-IED pro	ograms. Ma								
				Accon	nplishment	s/Planned P	rograms Su	btotals	1.776	3.383	0.00
C. Other Program Funding Summar			FY 2014	FY 2014	FY 2014			l		Cost To	
Line Item • 0607SPSS: Soldier Protection and Survival Systems <u>Remarks</u>	<u>FY 2012</u> 35.262	<u>FY 2013</u> 15.153	<u>Base</u> 0.000	<u>000</u>	<u>Total</u> 0.000	<u>FY 2015</u> 0.000	<u>FY 2016</u> 0.000	<u>FY 2017</u> 0.000	<u>FY 2018</u> 0.000	 <u>Complete</u> 0.000 	
 D. Acquisition Strategy • SPEAR primarily takes advantage purchases are made with O&M. 	of modified	commercial	off- the- she	lf (COTS) or	non-develo	omental item	ns (NDI) throu	ugh open co	ompetition.	The majority	of SPEAR

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	PE 1160478BB: Soldier Protection and	S385: Solo	lier Protection and Survival
BA 7: Operational Systems Development	Survival Systems	Systems	

• TCCCE CASEVAC takes advantage of COTS equipment and/or NDI. A Fixed Firm Price Indefinite Delivery/Indefinite Quantity contract was awarded in the 4th quarter of FY 2011.

• RC-IED - Resources support the completion of the FY 2011 initiated development and overall effectiveness and operational suitability testing of the SOF-Unique Next Generation Electronic Countermeasure (ECM) / Ground-Based, Counter Radio-Controlled Improvised Explosive Device Warfare (CREW) system.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E P	Project C	ost Analysis: PB	2014 Unite	ed States	Special C	Operation	is Comma	ind			_	DATE	: April 201	3	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst	lopment,	Test & Evaluation,	Defense-	Wide		PE 116	M NOME 0478BB: 3 I Systems	Soldier P		and	PROJE S385: S System	Soldier Pro	tection an	d Surviv	al
Product Developmen	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC	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 Complete	Total Cost	Target Value of Contract
SPEAR MICH Land/ Maritime Communication System	Various	PM-SSES:Natick, MA	0.350	0.302	Mar 2012	0.109	Mar 2013	-		-		-	0.000	0.761	
Protective Combat Uniform (PCU)	Various	PM-SSES:Natick, MA	0.361	0.426	Feb 2012	0.500	Feb 2013	-		-		-	0.000	1.287	
Load Carriage System (LCS) and Backpacks	Various	PM-SSES:Natick, MA	0.050	-		0.200	Mar 2013	-		-		-	0.000	0.250	
Modular Glove System (MGS)	Various	PM-SSES:Natick, MA	0.000	-		0.100	Mar 2013	-		-		-	0.000	0.100	
		Subtotal	0.761	0.728		0.909		0.000		0.000		0.000	0.000	2.398	
Test and Evaluation ((\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC	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 Complete	Total Cost	Target Value of Contract
Environmental Clothing Testing/P3I	Various	PM-SSES:Natick, MA	0.387	0.373	Feb 2012	0.150	Feb 2013	-		-		-	0.000	0.910	
Signature Management Profile Characterization	Various	PM-SSES:Natick, MA	0.300	0.249	Mar 2012	0.391	Mar 2013	-		-		-	0.000	0.940	
LCS/BAV/Backpack Material and Prototype Testing	Various	PM-SSES:Natick, MA	0.187	0.160	Feb 2012	0.100	Mar 2013	-		-		-	0.000	0.447	
MGS Testing	Various	PM-SSES:Natick, MA	0.000	-		0.100	Mar 2013	-		-		-	0.000	0.100	
Maritime Comms Testing	Various	PM-SSES:Natick, MA	0.310	0.266	Jan 2012	0.700	Jan 2013	-		-		-	0.000	1.276	
National Assessment Group RC-IED Test Support	Various	National Assesment Group:Kirkland AFB, NM and Fort Bragg, NC	0.000	-		1.033	Mar 2013	-		-		-	0.000	1.033	
Prior Year Funding	MIPR	PM-SSES:Natick, MA	2.576	-		0.000		-		-		-	0.000	2.576	

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide		PE 1160		ENCLATU Soldier Pl s		and	PROJE S385: S System	Soldier Pro	otection ar	nd Surviv	al
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	013	FY 2 Ba			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 Complete	Total Cost	Target Value of Contract
		Subtotal	3.760	1.048		2.474		0.000		0.000		0.000	0.000	7.282	
			All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba			2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	4.521	1.776		3.383		0.000		0.000		0.000	0.000	9.680	

Remarks

hibit R-4, RDT&E Schedule Profile: PB 2014 U	Inite	d S	tates	Spe	ecia	l Ope	erati	ons	Com	nmar	nd										[DATE	:: A	pril 2	201	3		
PROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, L 7: Operational Systems Development	Defe	ense	-Wia	e				PE ⁻	1160	0478	DMEN BB: S tems					an	d	S	\$385	JEC 5: So ems	oldi	er Pro	otec	tion	an	d Sı	ırviv	ral
		FY	2012	2		FY	2013	3		FY 2	2014		F	Y 2	015		F	Y 20	16			FY 20)17			FY	2018	3
	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)																												
Reactive Fiber Testing																												
PCU P3I																												
Signature Management Profile Characterization																												_
Materials Research																												
Modular Glove System																												
Market Research, Lightweight Power for Active Heating																												_
SPEAR MICH Comms																												
Market Research/Interoperability Assessment																												
Maritime Comms Develop																												-
SPEAR LCS, Body Armor Vest (BAV and Backpacks)																												_
LCS/BAV/Backpack Material and Prototyping Testing																												
Safety Belt and Lanyard Test Methods																												
Testing Water Repellant Nanocoatings																												
Load Effects on Survivability																												
RC-IED																												
NAG RC-IED Test Support																												

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

Schedule Details

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

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2014 L	Inited State	s Special O	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel	est & Evalua	ntion, Defen	se-Wide		R-1 ITEM I PE 116047 <i>Survival S</i> y	8BB: Soldie	ATURE er Protection	n and	PROJECT S385A: Th Equipment	eater Body	Armor and A	Associated
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S385A: Theater Body Armor and Associated Equipment	0.000	0.871	0.880	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.751
Quantity of RDT&E Articles												

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

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This project provides specialized equipment to meet the unique soldier protection and survival requirements of SOF, to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Special Tactics Operators; and Marine Forces Special Operations Command. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.

This budget line enhances the SPEAR program by supporting body armor plates, soft armor, helmets, and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment. Creation of a separate project for ballistic protection efforts was directed in the National Defense Authorization Act of 2010.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: SOF Personal Equipment Advanced Requirements (SPEAR)	0.871	0.880	0.000
FY 2012 Accomplishments: Conducted high elevation ammunition testing and threat validation to assess effectiveness of fielded armor systems. Continued research on advanced NDI of body armor systems and material/density exploitation in support of a next generation armor plate and helmet. Conducted material testing and prototype evaluation of advanced body armor designs; baseline testing and development of specifications for a next generation helmet . Conducted market survey and evaluation of transparent ballistic lens products in preparation for development of a future Special Operations Eye Protection capability. Conducted helmet behind armor effects ballistic testing to assess performance of a fielded helmet system. Performed laboratory testing of helmet sensor technology with a fielded helmet.			
<i>FY 2013 Plans:</i> Continue foreign ammunition testing and threat validation to assess armor effectiveness. Continue the helmet design and blast studies. Conduct body armor material research and testing along with the soldier load analysis and on behind armor effects. Conduct evaluation of transparent armor products which include ballistic and optical testing of transition lenses. Initiate work on			

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States S	pecial Operations Command		DATE: /	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and Survival Systems	PROJE S385A: Equipm	Theater Bo	dy Armor and	d Associated
B. Accomplishments/Planned Programs (\$ in Millions) anti-fogging technologies and continues development of low visibility excapabilities.	yewear to supportfuture Special Operations Eye Pro		FY 2012	FY 2013	FY 2014
	Accomplishments/Planned Programs Su	ubtotals	0.871	0.880	0.000

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

N/A

Remarks

D. Acquisition Strategy

SPEAR ballistic protection equipment takes advantage of modified commercial-off-the-shelf or non-developmental items acquired through full and open competition. Currently these SPEAR purchases are made with O&M. As USSOCOM requirements are different from those of the Services, items leveraged from industry are often on the cutting edge of technology and require substantial testing in the SOF environments. Some SPEAR ballistic systems have transitioned to the U.S. Army, other services and other government agencies.

E. Performance Metrics

N/A.

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special C	Operatior	ns Comma	ind				DATE	: April 201	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst	lopment,	Test & Evaluation,	Defense-	Wide		PE 116	M NOME 0478BB: \$ I Systems	Soldier P		and	PROJE S385A: <i>Equipm</i>	Theater I	Body Armo	or and As	ssociated
Product Developmen	nt (\$ in M	illions)	ſ	FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 O(FY 2014 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor	Various	PM-SSES:Natick, MA	-	-		0.300	Feb 2013	-		-		-	0.000	0.300	
Laser Eye Protection	Various	PM-SSES:Natick, MA	0.000	-		0.050	May 2013	-		-		-	0.000	0.050	
		Subtotal	0.000	0.000		0.350		0.000		0.000		0.000	0.000	0.350	
Test and Evaluation ((\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 O(FY 2014 Total]		
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor Testing	Various	PM-SSES:Natick, MA	0.000	0.568	Mar 2012	0.380	Mar 2013	-		-		-	0.000	0.948	
Lightweight Helmet Testing	Various	PM-SSES:Natick, MA	0.000	0.239	Mar 2012	0.100	Mar 2013	-		-		-	0.000	0.339	
Transparent Armor Testing	Various	PM-SSES:Natick, MA	0.000	0.064	Jan 2012	0.050	Jan 2013	-		-		-	0.000	0.114	
		Subtotal	0.000	0.871		0.530		0.000		0.000		0.000	0.000	1.401	
			All Prior Years	FY 2	2012	FY	2013	FY 2 Ba		FY 2 O(FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.871		0.880		0.000		0.000		0.000	0.000	1.751	

Remarks

N/A.

Exhibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnite	d St	tates	Spe	ecial	Oper	ratior	ns Co	mm	and											DA	TE: /	April	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, I 3A 7: Operational Systems Development	Defe	ense	e-Wia	le			P	R-1 IT PE 110 Surviva	6047	78BB	: So		-		on a	nd		S38	OJE 35A: <i>uipm</i>	The		r Bo	dy A	rmo	r an	d As	sociate
		FY	2012	2		FY 20	013		F١	Y 201	4		FY	2015	5		FY 2	2016	;		FY	2017	7		FY 2	2018	
	1	2	3	4	1	2	3	4 1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Body Armor (BA)																											
Market Survey (Pre-Solicitation)																											
Verification Testing (Pre-Validation)																											
Soldier Load Analysis Research and Perceptual Encapsulation																											
BA Materials/Testing																											
SPEAR Eye Protection																											
Market Survey																											
Ballistic & Optical Development of Transition Lenses																											
Anti-Fogging Development																											
Low Visibility Eyewear																											
SPEAR Ballistic/Life Support																											
Threat Validation																											
Foreign Ammunition Exploitation Testing																											
Non-Destructive Inspection Development & Testing																											
Helmet Design Research																											
Next Generation Helmet		-																									
Next Generation Lightweight Materials																											
Behind Armor Effects																											
Slow Impact Research																											
Material Development/Analysis																											
Blast Research																											

Operations Command		DATE: April 2013
R-1 ITEM NOMENCLATURE	PROJECT	•
PE 1160478BB: Soldier Protection and	S385A: Th	neater Body Armor and Associated
Survival Systems	Equipmen	t
	R-1 ITEM NOMENCLATURE PE 1160478BB: Soldier Protection and	R-1 ITEM NOMENCLATURE PROJECT PE 1160478BB: Soldier Protection and S385A: The

Schedule Details

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

Exhibit R-2, RDT&E Budget Iten	xhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command									DATE: April 2013				
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA 9BB: SOF		Sensor Syst						
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2018	Cost To Complete	Total Cost					
Total Program Element	11.249	2.711	4.448	0.000	-	0.000	0.000	0.000	0.000	0.000	0.00	18.408		
S395: SOF Visual Augmentation, Lasers and Sensor Systems	11.249	2.711	4.448	0.000	-	0.000	0.000	0.000	0.000	0.000	0.00	18.408		

[#] 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

<u>Note</u>

Beginning in FY 2014, this Program Element (PE) 1160479BB, SOF Visual Augmentation, Lasers and Sensor 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 visual augmentation, laser and sensor systems equipment to meet the unique requirements of Special Operations Forces (SOF). 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 enemy threats to ensure mission success.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	3.000	4.448	0.000	-	0.000
Current President's Budget	2.711	4.448	0.000	-	0.000
Total Adjustments	-0.289	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.212	-			
SBIR/STTR Transfer	-0.077	-			
<u>Change Summary Explanation</u> Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Spec	ial Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160479BB: SOF Visual Augmentation, Lasers and	Sensor Systems
BA 7: Operational Systems Development	isher command arighting (\$0,242 million) and Small Dug	in see languation Dessarah
FY 2012: Net decrease of -\$0.289 million is due to reprogramming to h transfer (-\$0.077 million).	ligner command phonties (-\$0.212 million) and Small Bus	mess innovation Research
FY 2013: None.		
FY 2014: None.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command											DATE: April 2013			
										T F Visual Augmentation, Lasers or Systems				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2017	FY 2018	Cost To Complete	Total Cost				
									0.000	0.000	0.00	18.408		
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

Exhibit R-2A, RDT&E Project Justi	fication: PB	2014 United	States Spe	cial Operatio	ns Comman	d			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV	ITY			R-1 IT	EM NOMEN	CLATURE		PROJ	ECT		
0400: Research, Development, Test		, Defense-W	lide				igmentation,		SOF Visual A		, Lasers
BA 7: Operational Systems Develop					s and Senso	•			ensor System		
clandestine operator-borne visual a the SOF operator.	augmentation	devices. Th	nese access	ories greatly	improve the	combat effe	ctiveness of	the weap	on systems a	and the survi	vability of
B. Accomplishments/Planned Prog	grams (\$ in I	<u>Millions)</u>							FY 2012	FY 2013	FY 2014
<i>Title:</i> VAS									2.711	4.448	0.00
FY 2012 Accomplishments: Initiated the development of the next sharing of data/images and target ac	eness,										
FY 2013 Plans: Continue the development of the new sharing of data/images and target ac conditions: (1) Ability to detect, class determine wind speed at ranges out	cquisition. The sify, and enga	e primary ca age targets c	pability shor out to 800 m	tfalls address without the	sed include tuse of an inf	he following ra-red illumir	under all ligh ator; (2) Abil	nting ity to			
				Accon	nplishments	s/Planned P	rograms Su	btotals	2.711	4.448	0.00
C. Other Program Funding Summa	arv (\$ in Milli	ons)									
<u></u>	<u></u>	<u></u>	<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	
Line Item	<u>FY 2012</u>	FY 2013	Base	000	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 201</u>		<u>Complete</u>	
• PROC1: VISUAL AUGMENTATION, LASERS AND SENSOR SYSTEMS	16.142	34.028	0.000		0.000	0.000	0.000	0.00	0 0.000	0.000	50.062
<u>Remarks</u>											
	Science and antity product	Technology	projects col	nducted to da	ate and lead	to the devel	opment of pr	ototype s	systems for S	OF to evalua	
developmental efforts will leverage an Indefinite Delivery Indefinite Qua	Science and antity product	Technology	projects col	nducted to da	ate and lead	to the devel	opment of pr	ototype s	systems for S	OF to evalua	

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	s Special (Operation	is Comma	ind				DATE	: April 20	13	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Defense-	Nide		PE 116	M NOME 0479BB: 3 and Sens	SOF Visu	ial Augme	entation,		CT SOF Visua nsor Syste	-	ntation, La	asers
Product Developme	ent (\$ in M	illions)	ſ	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	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 Complete	Total Cost	Target Value of Contrac
VAS	C/FFP	Joint Special Operations Program Office:Crane, IN	1.015	2.500	Apr 2012	3.453	Jun 2013	-		-		-	Continuing	Continuing	
Prior Year Funding	C/CPFF	PM Sensors and Lasers:Ft Belvoir, VA	7.844	-		-		-		-		-	Continuing	Continuing	
	• •	Subtotal	8.859	2.500		3.453		0.000		0.000		0.000			
Test and Evaluation	ı (\$ in Milli	ons)	ſ	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		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
VAS	C/CPFF	Joint Special Operations Program Office:Crane, IN	0.000	0.211	Apr 2012	0.995	Jan 2013	-		-		-	Continuing	Continuing	
Prior Year Funding	C/CPFF	HQ USSOCOM:Tampa, FL	2.390	-		-		-		-		-	Continuing	Continuing	
		Subtotal	2.390	0.211		0.995		0.000		0.000		0.000			
						[Target
			All Prior Years	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Value of Contract

Exhibit R-4, RDT&E Schedule Profile: PB 2014 U	Inite	d Sta	tes	Spe	cial	Ope	erati	ons	Con	nmai	nd											DAT	Γ Ε : /	April	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, L BA 7: Operational Systems Development	Defe	nse-	Wide	9				PE	1160	0479)BB	ENC : SOI isor S	F Vi	isual	Aug	mer	ntatio	on,	S39		SOF	Visi r Sys		-	nent	tatior	n, La	isers
		FY 2	012			FY 2	2013	3		FY 2	201	4		FY	2015	5		FY	2016	5		FY	2017	7		FY 2	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
Visual Augmentation System Binocular/ Monocular																												
Development of the Next Generation Operator-borne Combat Optics																												
Integration and Testing of the Next Generation Operator-borne Combat Optics																												
Development of the Next Generation Visual Augmentation Device for Target Engagement Systems																												
Integration and Testing of the Next Generation Visual Augmentation Device for Target Engagement Systems																												

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	PE 1160479BB: SOF Visual Augmentation,	S395: SOF	Visual Augmentation, Lasers						
BA 7: Operational Systems Development Lasers and Sensor Systems and Sensor Systems									

Schedule Details

	St	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
Visual Augmentation System Binocular/Monocular				
Development of the Next Generation Operator-borne Combat Optics	1	2012	4	2013
Integration and Testing of the Next Generation Operator-borne Combat Optics	3	2013	2	2014
Development of the Next Generation Visual Augmentation Device for Target Engagement Systems	2	2013	2	2014
Integration and Testing of the Next Generation Visual Augmentation Device for Target Engagement Systems	2	2014	2	2015

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command											DATE: April 2013			
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide		R-1 ITEM NOMENCLATURE PE 1160480BB: SOF Tactical Vehicles									
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2018	Cost To Complete	Total Cost				
Total Program Element	2.206	-	2.206	3.672	3.235	2.369	2.418	Continuing	Continuing					
910: SOF Tactical Vehicles 10.493 4.931 11.325 2.206 - 2.206 3.672 3.235 2								2.369	2.418	Continuing	Continuinç			

[#] 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 program element provides for the development and testing of a variety of incremental upgrades to Special Operations Vehicles and ancillary equipment. The current SOF tactical vehicles include: All Terrain Vehicles and Lightweight Tactical All Terrain Vehicles (Individual), Light Mobility Vehicles (Light), Ground Mobility Vehicles (Medium), Non-Standard Commercial Vehicles (Commercial) for use in tactical missions, and Mine Resistant Ambush Protected Vehicles (Heavy). The SOF mission mandates that SOF vehicles remain technologically superior, operate in multiple environments and be able to meet any threat to provide a maximum degree of survivability.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	3.522	11.325	8.110	-	8.110
Current President's Budget	4.931	11.325	2.206	-	2.206
Total Adjustments	1.409	0.000	-5.904	-	-5.904
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	1.500	-			
SBIR/STTR Transfer	-0.091	-			
Other Adjustments	-	-	-5.904	-	-5.904

Change Summary Explanation

Funding:

FY 2012: Net increase of \$1.409 million is due to decrease of (-0.091) million transfer to Small Business Innovative Research and increase of \$1.500 million from reprogramming in support of Ground Mobility Vehicle 1.1 test.

FY 2013: No change.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Speci	al Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160480BB: SOF Tactical Vehicles	
BA 7: Operational Systems Development		

FY2014: Net decrease of (-\$5.904) million is due to (-\$3.612) million reprogramming for higher command priorities and (-\$2.292) million to support higher Departmental priorities.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2014 L	Jnited State	s Special O	perations C	ommand				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide		R-1 ITEM I PE 116048	-	-	nicles	PROJECT S910: SOF	Tactical Ve	ehicles	
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
S910: SOF Tactical Vehicles	10.493	4.931	11.325	2.206	-	2.206	3.672	3.235	2.369	2.418	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 develops, tests, and evaluates Special Operations vehicles and modifications. The Special Operations Forces (SOF) mission mandates that SOF vehicles remain technologically superior, operate in multiple environments and be able to meet any threat to provide a maximum degree of survivability. The current family of SOF tactical vehicles include: individual mobility vehicles, light mobility vehicles, medium mobility vehicles, non-standard commercial vehicles and heavy mobility vehicles.

• Family of Special Operations Vehicles (FSOV). This initiative provides for product improvements in the areas of suspension, power management, armor protection and unique vehicle design for all SOF tactical vehicle configurations. Designs must be standardized across all SOF Components that utilize a tactical vehicle. Improvements include, but are not limited to, new engineering change proposals (ECPs), field safety issues and theater endorsed requirements that make it essential to keep up with the increased weight and minimize the impact to mobility on the basic vehicle. FSOV develops, integrates and tests C4ISR systems in order to reduce space and power claim on vehicles and develop safety and engineering improvements that specifically address the enemy's changing tactics on the battlefield which typically focuses on survivability, force protection, or mobility. This program includes but is not limited to: Medium Mobility Vehicle Version 1.1 effort provides for a single projected multi-vendor award to acquire product samples for a medium vehicle variant capable of meeting specific requirements of internal aircraft transport on the C/MH47. The effort also provides for engineering costs related to performance, endurance, safety testing, integration and logistical analysis of product samples. The Mine Resistant Ambush Protected (MRAP) Vehicle Kits. This effort provides design, prototyping, testing and installation manual development of SOF peculiar integration kits for multiple models of Service-common MRAPs employed by SOF. Kits will enable SOF unique C4ISR installation and Common Remote Operator Weapons Station integration to Service-common MRAPs.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Family of Special Operations Vehicle	4.931	11.325	2.206
 FY 2012 Accomplishments: Continued development of ECPs that implement incremental upgrades and improve the design of the medium mobility vehicles, to include development, integration and testing of a Single Joint Platform C4ISR solution. Began prototyping and testing of version 1.1 of medium ground mobility vehicle. FY 2013 Plans: 			

Exhibit R-2A, RDT&E Project Just	tification: PB	2014 United	I States Spe	cial Operatio	ns Comman	d			DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	t & Evaluation,	Defense-W	lide		EM NOMEN 60480BB: <i>S</i>		Vehicles	PROJE S910: S	CT SOF Tactical	Vehicles	
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>/lillions)</u>							FY 2012	FY 2013	FY 2014
Continue development of ECPs tha efforts include development, prototy for service variant MRAPs.											
FY 2014 Plans: Continues development of ECPs the efforts include completing developm Integration Kits for service variant M	nent, prototypi			•	•		•				
				Accon	nplishment	s/Planned P	rograms Sul	btotals	4.931	11.325	2.206
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>	FY 2014	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	<u>)</u>
Line Item • PROC: TACTICAL VEHICLES Remarks	<u>FY 2012</u> 30.324	<u>FY 2013</u> 39.264	<u>Base</u> 43.353	000	<u>Total</u> 43.353	<u>FY 2015</u> 63.135	<u>FY 2016</u> 71.729	<u>FY 2017</u> 69.557			Total Cost Continuing
D. Acquisition Strategy Vehicle improvements integrate en through a competitive procuremer		ology or con	nmercial-off-	the-shelf/nor	n-developme	ental items.	Materiel solut	tions will b	e procured	via existing c	contracts or

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB2	2014 Unite	ed States	Special C	·					-		: April 20	13	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-I	Nide			M NOME 0480BB: \$		IRE tical Vehic	les	PROJE S910: S	CT SOF Tactic	al Vehicl	es	
Support (\$ in Million	s)		ſ	FY 2	2012	FY 2	2013		2014 ase	FY 2 O(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
Engineering Change Proposal Developmental Test Support	MIPR	Aberdeen Test Center:Aberdeen, MD	0.883	0.375	Feb 2012	0.300	Dec 2012	-		-		-	Continuing	Continuing	
C4I Engineering Change Proposal Developmental Test Support	MIPR	Space and Naval Warfare Systems Command:Charleston SC	1.802	0.850	Feb 2013	1.350	Feb 2013	-		-		-	Continuing	Continuing	
Medium Mobility Vehicle Engineering Change Proposal Development	MIPR	Naval Air Systems Command:Patuxent River, MD	1.646	0.600	Mar 2012	0.900	Apr 2013	0.130	Dec 2014	-		0.130	Continuing	Continuing	
Medium Mobility Vehicle Engineering Change Proposal Development	WR	GSE Engineering:Houghtor MI	i, 3.330	1.606	Jan 2013	1.269	Jan 2013	0.100	Mar 2014	-		0.100	Continuing	Continuing	
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development	MIPR	TBD:TBD	0.000	-		3.370	Jan 2013	-		-		-	0.000	3.370	
		Subtotal	7.661	3.431		7.189		0.230		0.000		0.230			
Test and Evaluation	(\$ in Milli	ons)	[FY	2012	FY 2	2013		2014 ase	FY 2 OC		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
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	C/FFP	TBD:TBD	2.832	1.500	Mar 2013	4.136	May 2013	1.976	Nov 2013	-		1.976	0.000	10.444	
		Subtotal	2.832	1.500		4.136		1.976		0.000		1.976	0.000	10.444	
			All Prior Years	FY	2012	FY	2013		2014 ase	FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	10.493	4.931		11.325		2.206		0.000		2.206			

253

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2014 Unite	ed States Special	Operations Comma	and			DATE	: April 201	3	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, 1 BA 7: Operational Systems Development	Defense-	Wide	R-1 ITEM NOME PE 1160480BB:	ENCLATURE SOF Tactical Vehi	cles	PROJEC S910: SO	-	cal Vehicle	s	
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2 OC	2014 I CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contrac

Remarks

chibit R-4, RDT&E Schedule Profile: PB 2014 U	Jnit	ed	State	es S	Specia	al C	Opera	tior	ns Co	mma	and											DAT	E : A	April	201	3		
PPROPRIATION/BUDGET ACTIVITY 00: Research, Development, Test & Evaluation, I A 7: Operational Systems Development	De	fens	se-W	⁄ide					R-1 IT PE 116							hicle	es			OJE 10: 3		Tac	tical	Veh	nicle	S		
		F	Y 20	12		F	Y 201	13		FY	2014	4		FY	2015			FY	2016	6		FY	2017	,		FY	2018	
	•		2 3	3	4 1		2 3	3	4 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Engineering Change Proposal Developmental Test Support							·							·								·						
Engineering Change Proposal Developmental Test Support																												
C4ISR Engineering Change Proposal Developmental Test Support																												
C4ISR Engineering Change Proposal Developmental Test Support																												
Medium Mobility Vehicle Engineering Change Proposal Development																												
Medium Mobility Vehicle Engineering Change Proposal Development																												
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																	-											
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																												
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development																												
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development															-								-					

Exhibit R-4A, RDT&E Schedule Details: 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 1160480BB: SOF Tactical Vehicles	PROJECT S910: SOF Tactical Vehicles

Schedule Details

	Sta	art	En	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Engineering Change Proposal Developmental Test Support	L			
Engineering Change Proposal Developmental Test Support	1	2012	4	2018
C4ISR Engineering Change Proposal Developmental Test Support	L			
C4ISR Engineering Change Proposal Developmental Test Support	1	2012	4	2018
Medium Mobility Vehicle Engineering Change Proposal Development				
Medium Mobility Vehicle Engineering Change Proposal Development	1	2012	4	2018
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	· · · ·			
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	2	2013	2	2014
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development	I		· ,	
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development	2	2013	4	2014

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	14 United St	ates Speci	al Operatior	ns Comman	ıd			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA B1BB: SOF	-					
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	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.976
S800: SO Munitions Advanced Development	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.976

[#] 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

<u>Note</u>

Beginning in FY 2014, this PE 1160481BB "SOF Munitions" has been consolidated in SOCOM PE 1160431BB "Warrior Systems."

A. Mission Description and Budget Item Justification

This program element provides for the advanced engineering operational system development and qualification efforts related to Special Operations Forces 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 United States Special Operations Command 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1.500	1.515	0.000	-	0.000
Current President's Budget	1.461	1.515	0.000	-	0.000
Total Adjustments	-0.039	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.039	-			

Change Summary Explanation

Funding:

FY 2012: Decrease of -\$0.039 million is due to a transfer to the Small Business Innovative Research transfer.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s 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 1160481BB: SOF Munitions	
FY 2013: None.		
FY 2014: None.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju		: PB 2014 l	Jnited State	s Special C	•					DATE: Ap	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, T BA 7: Operational Systems Deve	est & Evalua	ation, Defen	se-Wide			NOMENCLA 31BB: SOF I	-	:	PROJECT S800: SO Developm	Munitions .	Advanced	
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: SO Munitions Advanced Development	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.97
Quantity of RDT&E Articles												
	lant Itom I	ustification	1									
This project funds advanced en Non-Standard Materiel (NSM). includes bullet impact, fragmen Special Operations IM Testing I Stand-Off Precision Guided Mu	gineering, o Provides fo t impact, syr Plan. nitions (SOP	perational s r Insensitive mpathetic de PGM) provid	e Munitions e Munitions etonation, fa des for the d	(IM) techno ast cook off	logy develo , slow cook	pment and off and shap	evaluation t bed charge	hat allows S test. Testing	OF munition g is in acco	ons to pase ordance wi	testing whi the United	d States
This project funds advanced en Non-Standard Materiel (NSM). includes bullet impact, fragmen Special Operations IM Testing I Stand-Off Precision Guided Mu B. Accomplishments/Planned F	gineering, o Provides fo t impact, syr Plan. nitions (SOP	perational s r Insensitive mpathetic de PGM) provid	e Munitions e Munitions etonation, fa des for the d	(IM) techno ast cook off	logy develo , slow cook	pment and off and shap	evaluation t bed charge	hat allows S test. Testing	OF munition g is in acco	ons to pass ordance wi	testing whi the United FY 2013	d States FY 2014
Non-Standard Materiel (NSM). includes bullet impact, fragmen Special Operations IM Testing I Stand-Off Precision Guided Mu <u>B. Accomplishments/Planned F</u> <i>Title:</i> NSM	gineering, o Provides fo t impact, syr Plan. nitions (SOP	perational s r Insensitive mpathetic de PGM) provid	e Munitions e Munitions etonation, fa des for the d	(IM) techno ast cook off	logy develo , slow cook	pment and off and shap	evaluation t bed charge	hat allows S test. Testing	OF munition g is in acco	ons to pase ordance wi	testing whi the United	d States
This project funds advanced en Non-Standard Materiel (NSM). includes bullet impact, fragmen Special Operations IM Testing I Stand-Off Precision Guided Mu <u>B. Accomplishments/Planned F</u> <i>Title:</i> NSM <i>FY 2012 Accomplishments:</i> Conducted proof of principle and Standard 2105C (Department of 2006).	gineering, o Provides fo t impact, syr Plan. nitions (SOF Programs (S	perational s r Insensitive mpathetic de PGM) provid b in Million s	system deve e Munitions etonation, fa des for the d <u>s)</u> nunitions. C	(IM) techno ast cook off levelopmen	ology develo , slow cook at and impro	pment and o off and shap vement of S	evaluation t bed charge GOF-unique	hat allows S test. Testing SOPGMs.	OF munitio g is in acco FY	ons to pass ordance wi	testing whi the United FY 2013	d States FY 2014
This project funds advanced en Non-Standard Materiel (NSM). includes bullet impact, fragmen Special Operations IM Testing I Stand-Off Precision Guided Mu <u>B. Accomplishments/Planned F</u> <i>Title:</i> NSM <i>FY 2012 Accomplishments:</i> Conducted proof of principle and Standard 2105C (Department of	gineering, o Provides fo t impact, syn Plan. nitions (SOF Programs (S IM testing o Defense Te	perational s r Insensitive mpathetic de PGM) provid b in Millions on various m st and Meth various mur	system deve e Munitions etonation, fa des for the d <u>s)</u> nunitions. Con nitions. Con	(IM) techno ast cook off levelopmen continued te d: Hazard A	esting to sat	pment and off and shap vement of S sfy safety re Test for No to satisfy sa	evaluation f bed charge GOF-unique equirements n-Nuclear M fety require	hat allows S test. Testing SOPGMs. s in Military Junition, 26	OF munitio g is in acco FY Sep itary	ons to pass ordance wi	testing whi the United FY 2013	d States FY 2014

Exhibit R-2A, RDT&E Project	Justification: PB	2014 United	States Spe	cial Operatio	ns Comman	d			DATE: Ap	oril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev	T Munitions J nent	Advanced									
C. Other Program Funding Su	mmary (\$ in Milli	ons <u>)</u>									
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
Line Item	FY 2012	FY 2013	Base	000	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• PROC1: ORDNANCE	32.381	36.981	0.000		0.000	0.000	0.000	0.000	0.000	0.000	69.362
ACQUISITION											
<u>Remarks</u>											

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 an incremental approach to increase munitions performance, leverage Industry's Internal Research and Development (IRAD) innovative efforts and pre-competed contracts to improve warhead, seeker, guidance navigation and control system, and missile delivery packaging shall take place in industry, as well as government laboratories. Solutions will be tested at comparative demonstrations and/or flight test events.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operatior	ns Comma	ind				DATE	: April 201	13	
APPROPRIATION/BU 0400: <i>Research, Deve</i> BA 7: <i>Operational Sy</i> s	elopment,	Test & Evaluation,	Defense-	Wide			M NOME 0481BB: (PROJE S800: S Develo	SO Munitia	ons Advan	ced	
Test and Evaluation	(\$ in Milli	ons)		FY	2012	FY 2	2013		2014 Ise		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 Complete	Total Cost	Target Value of Contract
NSM - Obtain Munitions Test Articles	C/FFP	General Dynamics:Canada	0.000	0.400	Jan 2012	0.418	Jan 2013	-		-		-	0.000	0.818	
Evaluation of IM	C/FFP	US Air Force Air Armaments Center:Elgin AFB	0.000	0.150	Jan 2012	0.150	Jan 2013	-		-		-	0.000	0.300	
Testing of IM	Allot	ARDEC:Picatinny Arsenal, NJ	0.000	0.911	Jan 2012	0.947	Jan 2013	-		-		-	0.000	1.858	
		Subtotal	0.000	1.461		1.515		0.000		0.000		0.000	0.000	2.976	
			All Prior Years	FY	2012	FY	2013		2014 Ise	FY 2	2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	1.461		1.515		0.000		0.000		0.000	0.000	2.976	

Remarks

chibit R-4, RDT&E Schedule Profile: PB 2014	Unit	ed S	State	s Sp	ecia	l Op	erati	ons	Con	nma	nd											DA	TE:	Ap	oril 2	201	3		
PPROPRIATION/BUDGET ACTIVITY								R-1	ITE	M N	OME	ENC	LA	TUR	Е				PR	OJ	ЕСТ								
00: Research, Development, Test & Evaluation A 7: Operational Systems Development	, Def	ense	e-Wi	ide				PE ′	116	048′	IBB:	SO	FN	Aunit	ions					00: <i>velc</i>			nitior	ns .	Adv	and	ced		
		FY	201	12		FY	2013	3		FY	2014	Ļ		FY	201	5		FY	2010	6		FY	201	17			FY 2	018	3
	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																													
Evaluation of Insensitive Munitions (IM)																													
Evaluation of IM																													
Testing of IM																													
Testing of IM																													
SOPGM													-																
Evaluate Lethality Upgrades																													·

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al 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 1160481BB: <i>SOF Munitions</i>	PROJECT S800: SO Munitions Advanced Development
	Schodulo Dotaila	

Schedule Details

Sta	art	End			
Quarter	Year	Quarter	Year		
2	2012	2	2015		
2	2012	4	2015		
		1			
2	2012	4	2015		
		·/			
2	2014	2	2015		
	Quarter 2 2 2 2 2	2 2012 2 2012 2 2012 2 2012	Quarter Year Quarter 2 2012 2 2 2012 4 2 2012 4		

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 20 ⁻	14 United S	tates Speci	al Operation	ns Comman	d			DATE: April 2013			
APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Develo	est & Evalua	ation, Defen	se-Wide		R-1 ITEM I PE 116048	-	ATURE Rotary Wing						
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	164.301	46.199	24.430	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	234.930	
D615: SOF Rotary Wing Aviation	164.301	46.199	24.430	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	234.930	

[#] 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, SOF Rotary Wing Aviation, Program Element 1160482BB has been consolidated into SO Aviation Systems, SOCOM Program Element 1160403BB.

A. Mission Description and Budget Item Justification

This SOF Rotary Wing Aviation projects develops SOF-unique modifications and upgrades to SOF rotary wing aircraft that operate in increasingly hostile environments. Rotary wing aircraft supported by this project include: MH-60M, MH-47G, and A/MH-6M. These aircraft provide aviation support to Special Operations Forces (SOF) in worldwide contingency operations and low-intensity conflicts. They must be capable of rapid deployment; undetected penetration of hostile areas; and operating at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	51.123	24.430	47.448	-	47.448
Current President's Budget	46.199	24.430	0.000	-	0.000
Total Adjustments	-4.924	0.000	-47.448	-	-47.448
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-3.604	-			
SBIR/STTR Transfer	-1.320	-			
 Other adjustments 	-	-	-47.448	-	-47.448

Change Summary Explanation

FY 2012: Net decrease of \$4.924 million is due to a reprogramming to program element 1160403BB SOF Aviation Systems Advanced Development to support Silent Knight Radar contract awards (-\$3.546), a reprogramming to program element 1160402BB SOF Advanced Technology Development to support the Coalition Network (-\$0.058 million) and a transfer of funds to Small Business Innovative Research (-\$1.320 million).

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States S	pecial 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 1160482BB: SOF Rotary Wing Aviation	

FY 2013: None.

FY 2014: Net decrease of \$47.448 million due to this Program Element 1160482BB being consolidated into SOCOM Program Element 1160403BB, beginning in FY 2014.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command													
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems DevelopmentR-1 ITEM NOMENCLATURE PE 1160482BB: SOF Rotary Wing Aviation D615:PROJ D615:											T OF Rotary Wing Aviation			
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		
D615: SOF Rotary Wing Aviation	164.301	46.199	24.430	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	234.930		
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 develops/upgrades SOF rotary wing aircraft systems that operate in increasingly hostile environments. Rotary wing aircraft supported by this project include: MH-60M, MH-47G, and A/MH-6M. These aircraft provide aviation support to SOF in worldwide contingency operations and low-intensity conflicts, and they must be capable of rapid deployment; undetected penetration of hostile areas; and operating at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters. Sub-projects include:

• A/MH-6M Block 3.0 Upgrade is necessary to restore structural, performance, and safety margins for the aircrews. An airframe structural modification will address structural failures due to high intensity, high gross weight operations, and a decade of battle damage. A main/tail rotor drive train and engine control replacement effort will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade (NDI/COTS) will replace obsolescent components and provide basic situational awareness. This upgrade is critical to keep a 1960's vintage aircraft in the fight until a suitable replacement aircraft is available, estimated to be in the 2025 timeframe.

• Hostile Fire Indicating System (HFIS) detects, classifies, and alerts the aircrew to the presence of small arms and crew served weapons fire for SOF MH-47/60 platforms. By providing detection and angle of arrival information, the HFIS will allow the aircrew to perform evasive and counter-fire actions significantly increasing the aircraft's probability of survival. The Helicopter Survivability Task Force (HSTF) funds incorporated Hostile Fire Indication in the Infrared Spectrum as well as provided sensor fusion of Infrared, Ultra-Violet, and acoustic sensors to reduce false alarms and increase probability of detection.

• The MH-47 Engine Automatic Re-Light (EARL) system will detect the presence of an impending or an in-progress engine flame-out event and re-establish combustion within the engine to avoid an actual engine flame-out. EARL will recognize the event much faster than a pilot and then proceed to reignite/restart the engine while monitoring and adjusting engine parameters including the ignition system and fuel flow scheduling.

• MH-47 Low Cost Modifications program develops technologies to improve performance and safety of the MH-47G and decrease operational costs. Efforts include the Active Parallel Actuator System (APAS), Active Noise Cancellation (ANC), and Engine Barrier Filter.

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		
400: Research, Development, Test & Evaluation, Defense-Wide	PE 1160482BB: SOF Rotary Wing Aviation	on D615: SOF Rotary	Wing Aviation	า
BA 7: Operational Systems Development			-	
 Next Generation Forward Looking Infrared (NGFLIR) program pro the Forward Looking Infrared Radar (FLIR) Pre-Planned Product Imp ANZSQ-2 NGFLIR on the light and heavy assault platforms within th 	provement (P3I) drop-in, advanced dual color (long ne Army Special Operations Aviation (ARSOA) fleet.	and mid-wave) IR detec	ctor upgrade f	or the
 MH-60 SOF Modernization program provides for the systems eng support. 	jineering and platform integration efforts, to include	continued flight and qua	alification testi	ng and test
 Reduced Optical Signature Emissions Solution (ROSES) program reducing Army Special Operations Aviation (ARSOA) aircraft vulnera more sophisticated emerging threats. 				
• Degraded Visual Environment (DVE) solution will fuse information points, obstacles, and landing zone information to the aviator. The D	DVE solution will provide MH-47/60 aircrews with vis	sual cues for obstacle av	voidance and	aircraft
control during all phases of flight and significantly increase crew and software development.	I passenger survivability in DVE such as dirt and sno	ow. Additional funding i	is provided to	begin
	I passenger survivability in DVE such as dirt and sno	ow. Additional funding i FY 2012	is provided to FY 2013	begin FY 2014
software development.	I passenger survivability in DVE such as dirt and sno			
software development. 3. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans:	nd upgrades to airframe.	FY 2012	FY 2013	FY 2014
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, a	nd upgrades to airframe.	FY 2012	FY 2013	FY 2014
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans:	nd upgrades to airframe.	FY 2012	FY 2013	FY 2014
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, a	nd upgrades to airframe. and upgrades to airframe.	FY 2012 4.865	FY 2013 13.145	FY 2014 0.000
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, a Title: Hostile Fire Indicating System (HFIS) FY 2012 Accomplishments:	nd upgrades to airframe. and upgrades to airframe.	FY 2012 4.865	FY 2013 13.145	FY 2014 0.000
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, ar FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, a Title: Hostile Fire Indicating System (HFIS) FY 2012 Accomplishments: Completed development of the detection, classification and alert system Title: MH-47 Engine Automatic Re-Light (EARL) FY 2013 Plans:	nd upgrades to airframe. and upgrades to airframe.	FY 2012 4.865 0.629	FY 2013 13.145 0.000	FY 2014 0.000
software development. 3. Accomplishments/Planned Programs (\$ in Millions) Title: A/MH-6M Block 3.0 Upgrade FY 2012 Accomplishments: nitiated development of cockpit upgrades, improved rotor systems, an FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, a Title: Hostile Fire Indicating System (HFIS) FY 2012 Accomplishments: Completed development of the detection, classification and alert system Title: MH-47 Engine Automatic Re-Light (EARL)	nd upgrades to airframe. and upgrades to airframe.	FY 2012 4.865 0.629	FY 2013 13.145 0.000	FY 2014 0.000

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	pecial Operation	ns Commar	ıd			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development		EM NOMEN 60482BB: S	I CLATURE OF Rotary W	ing Aviation	PROJI D615:		Wing Aviation	n
B. Accomplishments/Planned Programs (\$ in Millions)						FY 2012	FY 2013	FY 2014
Begin development of the Active Parallel Actuator Subsystem (APAS) a MH-47G.	nd Active Noise	e Cancellati	on (ANC) tec	hnologies fo	r the			
FY 2013 Plans: Continue development of the APAS and ANC technologies for the MH-4 MH-47G.	17G. Begin dev	velopment o	f the Engine	Barrier Filter	for the			
Title: Next Generation FLIR						0.295	0.000	0.000
FY 2012 Accomplishments: Begin development of a multispectral (Image Intensified Television (IIT) camera for us in the Q2 Sensor.	/),Digital Televi	sion (DTV),	Short-Wave	Infrared (SW	/IR))			
Title: MH-60 SOF Modernization Program						32.507	0.000	0.000
FY 2012 Accomplishments: Completed systems integration and qualification efforts on one prototype	e MH-60M helio	copter.						
Title: Reduced Optical Signature Emissions Solution (ROSES)						1.833	0.000	0.000
<i>FY 2012 Accomplishments:</i> Completed development of ROSES and started qualification testing.								
Title: Degraded Visual Environment (DVE)						0.000	4.757	0.000
FY 2013 Plans: Initiate development, integration, and testing of DVE sensors solution we ARSOA platforms.	ith avionics bac	kbone (stai	ted with FY 2	2011 funds) f	or			
	Accom	plishment	s/Planned P	ograms Su	btotals	46.199	24.430	0.000
C. Other Program Funding Summary (\$ in Millions)								
FY 2014		FY 2014					Cost To	-
Line Item FY 2012 FY 2013 Base • PROC2: ROTARY WING 39.221 74.832 99.221 74.832 UPGRADES AND SUSTAINMENT 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221 74.832 50.221	<u>e OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 201</u>	<u>7 FY 201</u>	<u>8</u> <u>Complete</u> Continuing	Continuing
<u>Remarks</u>								
PE 1160482BB: SOF Rotary Wing Aviation	UNCLAS	SIFIED						200

	UNCLASSIFIED		
Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial 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 1160482BB: SOF Rotary Wing Aviation	PROJECT D615: SOF	- Rotary Wing Aviation
 D. Acquisition Strategy A/MH-6M Block 3.0 Upgrade is comprised of three major efforts: airfr source contract to Boeing, who owns the technical data associated with Power and Engine Control (GPEC) under subcontract to Boeing. As pa blades available off-the-shelf through a competitive evaluation. The co the Common Avionics Architecture System (CAAS) source code to the selected. The production software effort will be a FFP contract. Airfrar Activity (SOFSA) by the incumbent contractor. 	h the A/MH-6 airframe. The engine control work will art of the airframe upgrade, the main and tail rotor bla ockpit avionics architecture will be developed by Rock extent possible. Any new hardware components wil	be performe ades are be well-Collins I be NDI/CC	ed by Rolls-Royce and Goodrich ing replaced with one of several s, with the intent to leverage DTS and will be competitively
 HFIS - This effort will develop, integrate, install, and field the capabil artillery, and rocket propelled grenades. HFIS will allow aircrews to pe success. A competitive source selection process will be conducted for the original equipment manufacturer. The HSTF funds incorporated Ho violet, and acoustic sensors to reduce false alarms and increase proba- 	rform evasive and counter-fire actions, which will incr the HFIS effort to the extent possible. Proprietary co stile Fire Indication in the Infrared Spectrum as well a	rease aircra	ft survivability and mission is may direct some efforts to
 MH-47 EARL system - This effort develops and qualifies a solution to fielding of changes to the engine control system to perform automatic e efforts to the original equipment manufacturer. 	•		
• MH-47 Low Cost Modifications - This efforts develops technologies to include the APAS, ANC, and Engine Barrier Filter. This effort will constantly analytical engineering services to be procured. Because of proprietary	ist mostly of Government executed integration, testin	ig, and qual	ification efforts with some
 MH-60M SOF Modernization Program - This supports the Systems I limited to, government and contractor flight test support, engineering an that may direct some efforts to the original equipment manufacturer. 			
 ROSES - This effort developed and qualified a flare solution that dis to survive in sophisticated threat environments. Proprietary issues with source contract with the current manufacturer as the best value to the 	n the existing flare and lack of suitable alternatives (b		

• DVE - This effort integrates and qualifies a solution to address a safety of flight issue while flying in degraded visual environments. A competitive source selection process will be conducted for the DVE solution to the extent possible while capitalizing on Science and Technology initiatives and other Service DVE investments. Proprietary considerations may direct some efforts to the original equipment manufacturer. Additional funds will be employed to begin the development of the software/ firmware for the Synthetic Vision Backbone which uses Digital Terrain Elevation Data or High Resolution digital elevation maps, Threat Data, and Blue Force Tracker.

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial Operations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
400: Research, Development, Test & Evaluation, Defense-Wide 8A 7: Operational Systems Development	PE 1160482BB: SOF Rotary Wing Aviation	D615: SOF Rotary Wing Aviation
This is combined with Q2 Electro-Optic Sighting System overlay and S the aircrew in degraded visual environments. The Synthetic Vision Bac detection.		
Performance Metrics N/A		

	•	ost Analysis: PB 2	2014 Unite	ed States	Special C	· · · · · · · · · · · · · · · · · · ·					1		: April 201	3	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Syst			M NOME 0482BB: \			PROJE D615:		y Wing Av	viation						
Product Developmen	it (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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 Contrac
A/MH-6M Block 3.0 Upgrades	C/Various	PM MELB:Ft. Eustis, VA.	-	4.865	Jan 2013	13.145	Jan 2013	-		-		-	0.000	18.010	
Hostile Fire Indicating System	C/Various	Various:Various	-	0.629	Jan 2013	-		-		-		-	0.000	0.629	
MH-47G EARL	C/Various	PM TAPO:Ft. Eustis, VA.	-	-		0.793	Apr 2013	-		-		-	0.000	0.793	
MH-47G Low Cost Mods	C/Various	PM TAPO:Ft. Eustis, VA.	-	6.070	Dec 2012	5.735	Jan 2013	-		-		-	0.000	11.805	
ROSES	C/Various	PM TAPO:Ft. Eustis, VA.	6.667	1.833	Jan 2012	-		-		-		-	0.000	8.500	
DVE	C/Various	PM TAPO:Ft. Eustis, VA.	6.000	-		4.757	Aug 2013	-		-		-	0.000	10.757	
Next Generartion FLIR	C/Various	PM TAPO:Ft Eustis, VA	-	0.295	Nov 2012	-		-		-		-	0.000	0.295	
Prior Year - Completed efforts	Various	Various:Various	81.258	-		-		-		-		-	0.000	81.258	
		Subtotal	93.925	13.692		24.430		0.000		0.000		0.000	0.000	132.047	
Test and Evaluation ((\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 OC		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
MH-60 SOF Modernization Program		Various:Various	49.261	32.507	Nov 2011	-		-		-		-	0.000	81.768	
Prior Years	Various	Various:Various	15.836	-		-		-		-		-	0.000	15.836	
		Subtotal	65.097	32.507		0.000		0.000		0.000		0.000	0.000	97.604	

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	13	
APPROPRIATION/BI 0400: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Defense-	Wide				NCLATU SOF Rota		Aviation	PROJE D615: S		ry Wing A	viation	
Management Servic	es (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	-		2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	-	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years	Various	Various:Various	5.279	-		-		-		-		-	0.000	5.279	
		Subtotal	5.279	0.000		0.000		0.000		0.000		0.000	0.000	5.279	
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	-		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	164.301	46.199		24.430		0.000		0.000		0.000	0.000	234.930	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 U	Inite	ed S	state	s Sp	ecia	ıl Op	pera	tions	s Cor	nma	and										I	DAT	E : A	pril	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, L BA 7: Operational Systems Development	Def	ense	ə-Wi	de							IOMI 2BB:					ng Ai	viatic	on		OJE 15:		Rot	ary I	Ving	g Av	iatio	n	
		FY	201	2		FY	′ 20 1	13		FY	2014	1		FY	2015		I	FY 2	2016	5		FY 2	2017			FY	2018	
	1	2	3	4	1	2	2 3	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A/MH-6M Block 3.0 Development/Qualification/ Testing																												
HFIS																												
MH-47G EARL/Qualification/Test																												
MH-47G Low Cost Mods Qualification/Testing																												
Next Generation FLIR																												
MH-60 SOF Modernization Program Qualification/Testing																												
MH-60 SOF Modernization Program Qualification/Testing (Continuation) Block 1																												
ROSES Development/Qualification/Test																												
DVE																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Ope	rations Command		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160482BB: SOF Rotary Wing Aviation	PROJECT D615: SO/	FRotary Wing Aviation

Schedule Details

	Sta	art	End			
Events	Quarter	Year	Quarter	Year		
A/MH-6M Block 3.0 Development/Qualification/Testing	2	2012	1	2014		
HFIS	1	2012	4	2012		
MH-47G EARL/Qualification/Test	1	2013	4	2013		
MH-47G Low Cost Mods Qualification/Testing	1	2012	4	2013		
Next Generation FLIR	4	2012	1	2013		
MH-60 SOF Modernization Program Qualification/Testing	1	2012	4	2012		
MH-60 SOF Modernization Program Qualification/Testing (Continuation) Block 1	1	2014	1	2014		
ROSES Development/Qualification/Test	2	2012	2	2013		
DVE	4	2013	1	2014		

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	14 United St	tates Speci	al Operation	ns Comman	ıd			DATE: Api	il 2013	
APPROPRIATION/BUDGET ACT 0400: Research, Development, To BA 7: Operational Systems Devel	est & Evalua	ation, Defen	se-Wide			NOMENCLA 33BB: <i>Marit</i> i	ATURE ime System	S				
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	73.568	66.657	26.405	18.325	-	18.325	43.795	15.931	2.343	2.375	Continuing	Continuing
S0417: Underwater Systems	73.568	66.657	26.405	13.738	-	13.738	33.401	11.021	0.000	0.000	0.000	224.790
S1684: Surface Craft	-	0.000	0.000	4.587	-	4.587	10.394	4.910	2.343	2.375	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 Special Operations Forces (SOF) Underwater Systems represents the approved consolidation of SOF Surface Craft, Program Element (PE)1160484BB and SOF Underwater Systems, PE 1160483BB. The consolidated PE 1160483BB has been renamed Maritime Systems.

A. Mission Description and Budget Item Justification

This consolidated PE provides for engineering & manufacturing development and operational development of SOF Surface and Undersea Mobility platforms. This program element also provides for pre-acquisition activities to quickly respond to new requirements for SOF surface and undersea mobility, looking at multiple alternatives to include cross-platform technical solutions, service common solutions, commercial off the shelf technologies and new development efforts.

The Underwater Systems project provides for engineering and manufacturing development and operational systems development of combat underwater submersibles and underwater support systems and equipment. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by SOF in the conduct of infiltration/ extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions.

The Surface Craft project provides for engineering & manufacturing development and operational systems development of light, medium, and heavy surface combatant craft and selected items of specialized equipment to meet the unique requirements of SOF. This project element also provides for pre-acquisition activities (materiel solutions analysis, advanced component development & prototypes) to quickly respond to new requirements for surface craft and equipment, such as the light and heavy combatant crafts that are currently being studied in the Joint Capabilities Integration and Development System process. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct operations associated with SOF maritime missions.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United	States Spec	cial Operations Co	mmand	DATE	: April 2013
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOME	INCLATURE	L	
0400: Research, Development, Test & Evaluation, Defense-Wide		PE 1160483BB:	Maritime Systems		
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	68.424	26.405	67.308	-	67.308
Current President's Budget	66.657	26.405	18.325	-	18.325
Total Adjustments	-1.767	0.000	-48.983	-	-48.983
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-1.767	-			
Other Adjustments	-	-	-48.983	-	-48.983

Change Summary Explanation

Funding:

FY 2012: Decrease of -\$1.767 million due to a transfer of funds to Small Business Innovative Research Program.

FY 2013: None.

FY 2014: Net decrease of -\$48.983 million is due a program increase to support the Next Generation Forward Looking Infrared Radar and Next Generation Surface System (\$.520 million), the approved SOF Surface Craft PE consolidation (\$10.572 million), a reprogramming to support higher command priorities (-\$26.018 million), and a reduction to support higher Departmental priorities (-34.057 million).

Schedule: Delays in Shallow Water Combat Submersible Block 1 design challenges by prime contractor resulted in schedule slip. Delays in Dry Combat Submersibles due to competing priorities.

Technical: None.

Exhibit R-2A, RDT&E Project J	ustification:	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, 7 BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide			NOMENCLA 33BB: Mariti	-	S	PROJECT S0417: Un	derwater Sy	vstems	
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
S0417: Underwater Systems	73.568	66.657	26.405	13.738	-	13.738	33.401	11.021	0.000	0.000	0.000	224.790
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 engineering and manufacturing development and operational systems development of small combat underwater submersibles and underwater support systems and equipment. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by Special Operations Forces (SOF) in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

• Combat Submersibles: Includes incorporating obsolescence solutions and conducting product improvement efforts for the in-service SEAL Delivery Vehicle MK 8 and conducting technology development and engineering and manufacturing development for the follow-on combat submersibles such as the various types of shallow water combat submersibles. The shallow water combat submersibles use an evolutionary acquisition approach to develop a family of submersibles, to include a new wet submersible capable of operating from existing Dry Deck Shelters, and more capable wet and/or dry submersibles that will operate from future large submarine shelters/systems and/or surface ships. The combat submersible sub-project leverages existing SEAL Delivery Vehicle components, develops new state-of-the-art components where appropriate, and leases or purchases commercial-off-the-shelf components and vehicles for test and evaluation and operational assessment.

• Underwater Support Systems and Equipment: Includes conducting product improvement efforts for in-service submarine support systems such as the Dry Deck Shelters, unmanned underwater vehicles such as the Semi-autonomous Hydrographic Reconnaissance Vehicle, and diver equipment such as the Hydrographic Mapping Unit, Non-gasoline Burning Outboard Engines and Diver Propulsion Devices. Also provides for technology development and engineering and manufacturing development, and studies and analysis for follow-on underwater systems and support equipment.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Shallow Water Combat Submersible (Block I)	13.052	8.989	2.844
FY 2012 Accomplishments: Completed Integrated Baseline Review and Preliminary Design Review. Entered detailed design phase.			
FY 2013 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Sp	ecial Operations Command		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>Maritime Systems</i>	PROJ S0417	ECT ': Underwater	Systems	
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2012	FY 2013	FY 2014
Complete contractor quality assurance, acceptance and system build up begin contractor verification trials.	test. Continue test and evaluation of SWCS Blo	ck I and			
FY 2014 Plans:					
Completes developmental testing and Engineering Development Model developmental testing program phase. EDM vehicle delivery and accept		level			
Title: Dry Combat Submersibles			51.645	9.234	10.894
FY 2012 Accomplishments: Procured government furnished equipment and continued commercial sed demonstrator User Operational Evaluations System (UOES) #2. Commercial for additional prototyping efforts for UOES #3. The project was initiated Submersible Concept Design Study in Program Element 1160483BB.	enced and completed Phase I, Concept Design S				
FY 2013 Plans: Continue commercial submersible prototype efforts, including the constru- of additional advanced technology demonstrator prototypes.	uction of UOES #2 and potential design and cons	truction			
FY 2014 Plans: Continues to design, construct, and test commercial prototype submersi	bles.				
Title: Dry Combat Submersible Medium (DCSM)			0.000	5.028	0.000
FY 2013 Plans: Perform studies and analysis to prepare for the commencement of a DC of user operational evaluation projects.	SM acquisition program at Milestone B based on	results			
Title: Dry Deck Shelter			1.960	3.154	0.000
FY 2012 Accomplishments: Conducted Analysis of Alternatives for next generation shelter to accomm	modate family of combat submersibles.				
FY 2013 Plans: Continue Analysis of Alternatives for next generation shelter and evaluat	te SOF Underwater Systems mobility needs.				
	Accomplishments/Planned Programs S	ubtotale	66.657	26.405	13.738

Exhibit R-2A, RDT&E Project Just	tification: PB	2014 United	I States Spe	cial Operatio	ons Comman	d			DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	t & Evaluation	, Defense-W	lide		EM NOMEN 60483BB: <i>M</i>		ems	PROJEC S0417: <i>U</i>	T nderwater S	Systems	
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					Cost To	
Line Item	<u>FY 2012</u>	FY 2013	Base	000	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	Complete	Total Cost
PROC1: Underwater Systems	6.379	23.037	37.439		37.439	30.543	56.817	50.038	51.419	188.817	255.672
Pomarke											

Remarks

D. Acquisition Strategy

• Combat Submersibles: Shallow Water Combat Submersible Block I used full and open competition, with a down-select to a single contractor. Broad Agency Announcements were issued for Dry Combat Submersible multiple design efforts with follow-on prototyping. Additionally, existing contracts are utilized where appropriate for various component development and prototypes.

• Dry Deck Shelter analysis of alternatives will perform some in-house work, other government agency support or existing contracts.

• Underwater Support Systems and Equipment: Existing contracts are utilized where appropriate, and various new contracts are awarded as necessary.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E P	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special (Operation	is Comma	nd			-	DATE	: April 201	3	
APPROPRIATION/BU 0400: Research, Deve BA 7: Operational Sys	lopment,	Test & Evaluation,	Defense-	Wide			M NOME 0483BB: /	-			PROJE S0417:		er System	ıs	
Product Developmer	nt (\$ in M	illions)	ſ	FY	2012	FY 2	2013	FY 2 Ba	2014 Ise		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 Complete	Total Cost	Target Value of Contract
Shallow Water Combat Submersible (SWCS) (Block I)	C/Various	Teledyne Brown Engineering:Huntsville AL	, 27.398	8.739	Apr 2012	4.549	May 2013	0.424	Apr 2013	-		0.424	0.000	41.110	
Dry Combat Submersibles	C/Various	General Dynamic- Electric Boat:Groton, CT	4.235	27.707	Sep 2012	6.144	Aug 2013	6.533	Jun 2014	-		6.533	23.552	68.171	
Dry Combat Submersibles	C/FFP	Submergence Group:Chester, CT	0.000	22.700	Jul 2012	-		0.777		-		0.777	0.000	23.477	22.70
Dry Combat Submersibles Medium	C/TBD	TBD:TBD	-	-		-		-		-		-	5.491	5.491	
Prior Year Funding	Various	Multiple:Multiple	27.970	-		-		-		-		-	0.000	27.970	
		Subtotal	59.603	59.146		10.693		7.734		0.000		7.734	29.043	166.219	
Support (\$ in Million	5)		ſ	FY	2012	FY 2	2013	FY 2 Ba			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 Complete	Total Cost	Target Value of Contract
SWCS (Block I)	Various	NSWC and NAVSEA:Panama City, FL and Washington, DC	2.876		Jan 2012		Feb 2013	-		-		-	0.000	4.365	
Dry Combat Submersibles	Various	NAVSEA: Crane / ARL-Pennstate Batelle:Panama City, FL / Washington DC, ARL-Pennstate Bat	1.321	-		-		-		-		-	0.000	1.321	
Dry Deck Shelter	Various	Various / RAND:Various	1.497	1.721	Sep 2012	2.917	May 2013	-		-		-	0.000	6.135	
Dry Combat Submersible Medium	TBD	NAVSEA:Panama City, FL and Washington DC	-	-		2.322	May 2013	-		-		-	0.000	2.322	

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2014 Unite	ed States	Special C	Operation	is Comma	nd				DATE	: April 201	3	
APPROPRIATION/BU 0400: Research, Dev BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide			E M NOME 0483BB: /				PROJE S0417:		er Systen	าร	
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 Complete	Total Cost	Target Value of Contract
SWCS (Block I)	Various	NSWC, NAVSEA:Panama City, FL/Washington, DC	2.486	1.529	Apr 2012	2.522	Jan 2013	0.967	Jan 2014	-		0.967	0.549	8.053	
Dry Combat Submersible	C/Various	NAVSEA / CRANE:Panama City, FL	0.000	-		1.992	May 2013	2.084	May 2014	-		2.084	12.078	16.154	
		Subtotal	2.486	1.529		4.514		3.051		0.000		3.051	12.627	24.207	
Management Servic	es (\$ in M	illions)	ſ	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 Complete	Total Cost	Target Value of Contract
SWCS (Block I)	Various	NSWC/ NAVSEA:Panama City, FL/Washington, DC	3.435	1.495	Jul 2012	1.926	Jan 2013	1.453	Mar 2014	-		1.453	1.252	9.561	
Dry Combat Submersible	Various	SRA:MacDill AFB, FL	2.350	1.238	May 2012	0.965	May 2013	1.500	May 2014	-		1.500	1.000	7.053	
Dry Deck Shelter	MIPR	NAVSEA:Washington	0.000	0.239	Aug 2012	0.200	Jan 2013	-		-		-	0.000	0.439	
Dry Combat Submersible Medium	Various	Various:Various	-	-		2.668	Jan 2013	-		-		-	0.500	3.168	
		Subtotal	5.785	2.972		5.759		2.953		0.000		2.953	2.752	20.221	
			[]												Target
			All Prior Years	FY 2	2012	FY 2	2013		2014 ase		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Value of Contract

khibit R-4, RDT&E Schedule Profile: PB 2014 U	nited	l Sta	ates	Spe	cial	Ope	erati	ons	Con	nmar	nd											DA	TE:	April	201	3		
PPROPRIATION/BUDGET ACTIVITY 000: Research, Development, Test & Evaluation, D A 7: Operational Systems Development	Defei	ıse-	Wid	e						M N(0483						ns				eoje 417:			vate	r Sys	sterr	ıs		
		FY 2	2012	2		FY	2013	3		FY 2	2014			FY 2	201	5		FY	201	6		FY	201	7		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
Shallow Water Combat Submersible (Block I)																			_									
Milestone B																												
Engineering & Manufacturing Development (Block I)																												
Developmental Test (Block I)																												
Operational Test (Block 1)																												
Dry Combat Submersibles																												
Analysis, Component Development and Prototypes																												
Dry Deck Shelter																												
Analysis of Alternatives for Next Generation Shelter																												
Dry Combat Submersible Medium																												
Engineering Analysis and Program Planning																												
Milestone B																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Ope	erations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>Maritime Systems</i>	PROJECT S0417: Underwater Systems

Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Shallow Water Combat Submersible (Block I)				
Milestone B	1	2012	1	2012
Engineering & Manufacturing Development (Block I)	1	2012	2	2014
Developmental Test (Block I)	2	2012	3	2014
Operational Test (Block 1)	3	2014	1	2015
Dry Combat Submersibles			· · · · · · · · · · · · · · · · · · ·	
Analysis, Component Development and Prototypes	4	2012	1	2016
Dry Deck Shelter				
Analysis of Alternatives for Next Generation Shelter	3	2012	4	2013
Dry Combat Submersible Medium				
Engineering Analysis and Program Planning	3	2013	4	2015
Milestone B	4	2015	4	2015

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 L	Jnited States	s Special C	perations C	Command				DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, 7 BA 7: Operational Systems Deve	Fest & Evalua	ation, Defen	se-Wide			NOMENCLA 33BB: Mariti	-		PROJECT S1684: Sui	rface Craft		
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
S1684: Surface Craft	-	0.000	0.000	4.587	-	4.587	10.394	4.910	2.343	2.375	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 engineering and manufacturing development, and operational systems development of light, medium, and heavy surface combatant craft and selected items of specialized equipment to meet the unique requirements of Special Operations Forces (SOF). This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to quickly respond to new requirements for surface craft and equipment, such as the light and heavy combatant crafts that are currently being studied in the Joint Capabilities Integration Development System process. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

The Combatant Craft Medium (CCM) sub-project provides a family of next generation combatant craft to replace the current rigid inflatable boat (RIB) and the MKV. One version of these craft will be a reconfigurable, multi-mission surface tactical mobility craft with a primary mission of insertion and extraction of SOF in a medium threat environment. It will incorporate additional performance capabilities above current platform capabilities such as shock mitigation, low observability, improved maneuverability and SOF warfighting capabilities required to operate in future threat environments. Other variants of craft will be developed to support foreign security assistance missions and operations in low or permissive threat environments. These variants are dependent on the threat environment, training requirement, or mission.

The Combatant Craft Heavy (CCH) sub-project represents a family of solutions that will provide engineering support for design and specification of a development combatant craft for movement and maneuver of SOF personnel. Requirements include maneuverability, reduced detectability with enhanced shock mitigation, and human systems integration. Potential solution for Combatant Craft Heavy is the Sea, Air, and Land Teams Insertion, Observation and Neutralization (SEALION) that was developed as an advanced technology prototype by the United States Navy and may be modified and tested for transition to SOF operations. Additional studies may be performed to support analysis of SOF-peculiar needs for an Afloat Staging Base to command, control, sustain, launch and recover Joint SOF.

The Next Generation Combat Craft Forward Looking Infrared Radar (CCFLIR) sub-project provides SOF with daylight, high resolution, and additional spectrum imaging capabilities to augment existing optical and radar sensors. Technology insertion is needed to enhance the detection, recognition, identification, and tracking of small and near surface targets and ships. This program is an FY 2014 new start.

The Next Generation Surface Systems (NGSRF) sub-project provides a rapid response capability to support SOF Combatant Craft Systems and subsystems. The NGSRF will explore solutions to support emerging requirements in support of SOF exercises and training for future missions. It provides technology refresh efforts to

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States S	pecial Operatio	ons Comman	d			DATE: /	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	PE 11	EM NOMEN 60483BB: <i>M</i>	aritime Syst			Surface Cra		
correct system deficiencies, improve asset life, and enhance mission risk reduction, and engineering analyses. Demonstrations and modifi weapons mounts, sensors, enhanced communications and navigation be commercial-off-the-shelf (COTS) solutions, other agency solutions	ications may be n subsystems, a	made to su and other mi	oport emerg nor modifica	ing capability tions to craft	enhancer in support	ments such	as but not lin	nited to,
B. Accomplishments/Planned Programs (\$ in Millions)						FY 2012	FY 2013	FY 2014
Title: Combatant Craft Medium (CCM)						0.000	0.000	3.31
FY 2014 Plans: Integrate newest weapon and sensor technologies into the CCM craft.								
Title: Combatant Craft Heavy (CCH)						0.000	0.000	0.75
FY 2014 Plans: Continue studies with craft design, development, and testing, which may weapons integration onto platforms.	ay include modi	fications to e	xisting Seali	ion craft and				
Title: Next Generation Combatant Craft Forward Looking Infrared Rada	ar (CCFLIR)					0.000	0.000	0.20
FY 2014 Plans: Initiate plans to develop, test, and evaluate COTS solution for next gen refresh into exisiting system.	eration CCFLIF	R systems, a	nd incorpora	ite technolog	у			
Title: Next Generation Surface System (NGSRF)						0.000	0.000	0.32
FY 2014 Plans: Initiate studies and advanced technology development, conduct risk re- solutions for next generation of combatant craft systems and subsystem		s, and refine	requiremen	ts and poten	tial			
	Accon	nplishments	/Planned P	rograms Su	btotals	0.000	0.000	4.58
C. Other Program Funding Summary (\$ in Millions) FY 201	4 <u>FY 2014</u>	FY 2014					<u>Cost To</u>	1
Line Item FY 2012 FY 2013 Bas		Total	FY 2015	FY 2016	<u>FY 2017</u>		8 Complete	
PROC: SOF Combatant Craft 35.05	53	35.053	54.212	44.071	26.686	5 14.292	2 Continuing	Continuin
<u>Remarks</u> N/A								
PE 1160483BB: <i>Maritime Systems</i>	UNCLAS	SIFIED						287

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command DATE: April 2013										
	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>Maritime Systems</i>	PROJECT S1684: Surface Craft								

D. Acquisition Strategy

Combatant Craft Medium acquisition strategy is a competition using a two-phase source selection process. Phase I involved a Small Business Set-Aside competition for two companies to design, build and deliver test articles. Phase II will select a single company to provide a fully integrated baseline craft system for test and evaluation with options for production, engineering support and contractor logistic support. Acquisition strategies for other craft may be based on the rapid acquisition of available non-developmental commercial-off-the-shelf (COTS)/government-off-the-shelf craft.

Combatant Craft Heavy acquisition strategy is to complete the initial planning and studies for the craft, which will be performed in-house with some support from other government agencies or existing contract services.

Next Generation Surface Systems and Subsystems to include the Combatant Craft Forward Looking Infrared Radar will explore the spectrum of acquisition strategies depending on selection of COTS solutions, modification of existing systems, or new competitive acquisitions.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and			_	DATE	: April 201	13	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-I	Wide			M NOME 0483BB:		I RE Systems		PROJE S1684:	CT Surface (Craft		
Product Developme	nt (\$ in Mi	llions)	ſ	FY 2	2012	FY 2014 FY 2013 Base				FY 2 OC		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 Contrac
Combatant Craft Medium (CCM)	C/Various	USMI/OIW:Gulfport MS/Clackamas, OR	-	-		-		1.232	Jul 2014	-		1.232	12.032	13.264	
Combatant Craft Heavy (CCH)	C/Various	Various:Various	-	-		-		0.750	Nov 2013	-		0.750	2.748	3.498	
Next Generation FLIR	C/Various	TBD:TBD	-	-		-		0.200	Mar 2014	-		0.200	3.299	3.499	
Next Generation Surface Systems	C/Various	TBD:TBD	-	-		-		0.220	May 2014	-		0.220	1.751	1.971	
		Subtotal	0.000	0.000		0.000		2.402		0.000		2.402	19.830	22.232	
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	013		2014 Ise	FY 2 OC		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 Contrac
Combatant Craft Medium (CCM)	MIPR	NSWC:Norfolk, VA	-	-		-		0.747	Aug 2014	-		0.747	0.00	0.747	
	_4	Subtotal	0.000	0.000		0.000		0.747		0.000		0.747	0.000	0.747	
Management Service	es (\$ in M	illions)		FY 2	2012	FY 2	013		2014 Ise	FY 2 OC	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 Complete	Total Cost	Target Value of Contrac
Combatant Craft Medium (CCM)	C/Various	NSWC:Norfolk, VA	-	-		-		0.338	Mar 2014	-		0.338	0.00	0.338	
Combatant Craft Medium (CCM)	C/Various	NSWC:Crane, IN	-	-		-		0.150	Mar 2014	-		0.150	0.000	0.150	
Combatant Craft Medium (CCM)	C/Various	Global Battlestaff & Program Support:MacDill AFB, FL	-	-		-		0.850	May 2014	-		0.850	0.000	0.850	
Next Generation Surface Systems	C/Various	TBD:TBD	_	_				0.100		-		0.100	0.300	0.400	

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	ed States	Special	Operation	s Comma	and				DATE	: April 20	3	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development												PROJECT S1684: Surface Craft			
Management Servic	es (\$ in M	illions)		FY 2	2012	FY 2	013	FY 2 Ba	-	FY 2 O(2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Award Cost Date		Cost	Award Date Cost		Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		1.438		0.000		1.438	0.300	1.738	
			All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba		FY 2 O(2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	0.000		0.000		4.587		0.000		4.587	20.130	24.717	

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 20	14 Uni	ted	State	es S	pecia	al O	pera	tions	s Co	mma	nd											DA	TE: /	١pril	201	13		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluati A 7: Operational Systems Development	on, De	fens	se-W	/ide								MENC 3: Mai				ms				ROJI 684			e Cra	ift				
	Γ	F	Y 20	12		F١	Y 20'	13		FY	201	14		FY	201	5		FY	201	6		FY	2017	7		FY	201	8
		1	2 3	3 4	4 1	2	2 3	3 4	1	2	3	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Combatant Craft Medium																												
Developmental Test/Operational Test																												
Low Rate Initial Production																												
Operational Evaluation																												
Initial Operational Capability																												
Combatant Craft Heavy		_																										
Risk Reduction Activities																												
Next Generation FLIR																												
Risk Reduction Activities																												_
Next Generation Surface Systems																												
Risk Reduction Activities																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Ope	rations Command	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160483BB: Maritime Systems	PROJECT S1684: Surface Craft

Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Combatant Craft Medium				
Developmental Test/Operational Test	4	2013	1	2014
Low Rate Initial Production	3	2014	2	2015
Operational Evaluation	2	2015	3	2015
Initial Operational Capability	4	2015	4	2015
Combatant Craft Heavy				
Risk Reduction Activities	3	2012	1	2015
Next Generation FLIR				
Risk Reduction Activities	2	2014	4	2014
Next Generation Surface Systems				
Risk Reduction Activities	2	2014	4	2015

Exhibit R-2, RDT&E Budget Ite	m Justificat	ion: PB 20	14 United St	ates Speci	al Operatior	ns Comman	ıd		DATE: April 2013			
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve			NOMENCLA 34BB: SOF									
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	41.008	13.817	8.573	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.398
S1684: SOF Surface Craft Advanced Systems	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.398			

[#] 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

<u>Note</u>

Beginning in FY 2014 Program Element (PE) 1160484BB has been consolidated into SOCOM PE 1160483BB, SOF Underwater Systems.

A. Mission Description and Budget Item Justification

This program element provides for engineering & manufacturing development and operational systems development of light, medium, and heavy surface combatant craft and selected items of specialized equipment to meet the unique requirements of Special Operations Forces (SOF). This program element also provides for pre-acquisition activities (materiel solutions analysis, advanced component development & prototypes) to quickly respond to new requirements for surface craft and equipment, such as the light and heavy combatant crafts that are currently being studied in the Joint Capabilities Integration and Development System process. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct operations associated with SOF maritime missions.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	14.475	8.573	5.917	-	5.917
Current President's Budget	13.817	8.573	0.000	-	0.000
Total Adjustments	-0.658	0.000	-5.917	-	-5.917
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.374	-			
 Other adjustments 	-0.284	0.000	-5.917	-	-5.917
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States	Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	PE 1160484BB: SOF Surface Craft	
FY 2012: Net decrease of -\$0.658 million is due to reprogrammir Innovative Research (-\$0.374 million).	ng for higher command priorities (-\$0.284 million	n) and a transfer of funds to Small Business
FY 2013: None.		
FY 2014: Decrease due to approved SOCOM PE consolidation ((-\$5.917 million).	
Schedule: Contracts awarded for CCM to Oregon Iron Works (O Awards protested to Government Accountability Office October 2 2012.		
Technical: None.		

Exhibit R-2A, RDT&E Project	Justification:	PB 2014 L	Jnited State	s Special C	perations C	Command				DATE: Apr	il 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Dev			NOMENCLA 34BB: SOF		oft	PROJECT S1684: SOF Surface Craft Advanced 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
S1684: SOF Surface Craft Advanced Systems	41.008	13.817	8.573	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.398
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 engineering and manufacturing development, and operational systems development of light, medium, and heavy surface combatant craft and selected items of specialized equipment to meet the unique requirements of Special Operations Forces (SOF). This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to quickly respond to new requirements for surface craft and equipment, such as the light and heavy combatant crafts that are currently being studied in the Joint Capabilities Integration Development System process. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

• The Combatant Craft Medium (CCM) sub-project provides a family of next generation combatant craft to replace the current rigid inflatable boat (RIB) and the MKV. One version of these craft will be a reconfigurable, multi-mission surface tactical mobility craft with a primary mission of insertion and extraction of SOF in a medium threat environment. It will incorporate additional performance capabilities above current platform capabilities such as shock mitigation, low observability, improved maneuverability and SOF warfighting capabilities required to operate in future threat environments. Other variants of craft will be developed to support foreign security assistance missions and operations in low or permissive threat environments. These variants are dependent on the threat environment, training requirement, or mission.

• The Combatant Craft Heavy (CCH) sub-project represents a family of solutions that will provide engineering support for design and specification of a development combatant craft for movement and maneuver of SOF personnel. Requirements include maneuverability, reduced detectability with enhanced shock mitigation, and human systems integration. Potential solution for Combatant Craft Heavy is the Sea, Air, and Land Teams Insertion, Observation and Neutralization (SEALION) that was developed as an advanced technology prototype by the United States Navy and may be modified and tested for transition to SOF operations. Additional studies may be performed to support analysis of SOF-peculiar needs for an Afloat Staging Base to command, control, sustain, launch and recover Joint SOF.

• The Next Generation Combat Craft Forward Looking Infrared Radar (CCFLIR) sub-project provides SOF with daylight, high resolution, and additional spectrum imaging capabilities to augment existing optical and radar sensors. Technology insertion is needed to enhance the detection, recognition, identification, and tracking of small and near surface targets and ships. This program is an FY 2014 new start.

Exhibit R-2A, RDT&E Project Jus	tification: PB	2014 United	States Spe	cial Operatio	ns Comman	d			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTI	VITY			R-1 IT	EM NOMEN	CLATURE		PROJE	СТ		
0400: Research, Development, Tes	t & Evaluation,	Defense-W	<i>'ide</i>	PE 11	60484BB: S	OF Surface	Craft	S1684:	SOF Surfac	e Craft Adva	nced
BA 7: Operational Systems Develo	oment							System	S		
 The Next Generation Surface S NGSRF will explore solutions to s correct system deficiencies, impro- risk reduction, and engineering an weapons mounts, sensors, enhar be commercial-off-the-shelf (COT 	upport emergin ove asset life, a nalyses. Demo need communic	ng requiremend and enhance onstrations a cations and r	ents in suppo mission cap nd modificat navigation su	ort of SOF expability throu tions may be ubsystems, a	xercises and gh the mear made to su and other mi	training for is of feasibili oport emerginor modifica	future mission ty studies, an ing capability tions to craft i	ns. It prov alyses of enhancer n support	vides techno alternatives ments such	ology refresh , pre-develop as but not lim	efforts to mental ited to,
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>/lillions)</u>							FY 2012	FY 2013	FY 2014
Title: Combatant Craft Medium (CO	CM)	-							12.962	8.573	0.000
FY 2012 Accomplishments: Initiated build and test components FY 2013 Plans: Completes build and contractor tes Title: Combatant Craft Heavy (CCI	ting; delivers a		operational	testing of te	st articles.				0.855	0.000	0.000
FY 2012 Accomplishments: Conducted risk reduction activities,	,	nentation fo	r a replacem	nent combata	ant craft and	refine requir	ements.		0.000	0.000	0.000
				Accon	nplishments	s/Planned P	rograms Sul	ototals	13.817	8.573	0.000
C. Other Program Funding Sumn	nary (\$ in Milli	ons <u>)</u>									
			FY 2014	FY 2014	FY 2014					<u>Cost To</u>	
Line Item	<u>FY 2012</u>	<u>FY 2013</u>	Base	000	<u>Total</u>	<u>FY 2015</u>	FY 2016	FY 2017		<u>3</u> Complete	
• PROC1: SOF COMBATANT CRAFT SYSTEMS	70.899	42.348	35.748		35.748	53.795	43.793	26.686	5 14.292	2 Continuing	Continuing
<u>Remarks</u>											
D. Acquisition Strategy							Discolution				

• Combatant Craft Medium acquisition strategy is a competition using a two-phase source selection process. Phase I involved a Small Business Set-Aside competition for two companies to design, build and deliver test articles. Phase II will select a single company to provide a fully integrated baseline craft system for test and evaluation with options for production, engineering support and contractor logistic support. Acquisition strategies for other craft may be based on the rapid acquisition of available non-developmental commercial-off-the-shelf (COTS)/government-off-the-shelf craft.

• Combatant Craft Heavy acquisition strategy is to complete the initial planning and studies for the craft, which will be performed in-house with some support from other government agencies or existing contract services.

Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special C	DATE: April 2013		
	R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>	PROJECT S1684: SC Systems	DF Surface Craft Advanced

• Next Generation Surface Systems and Subsystems to include the Combatant Craft Forward Looking Infrared Radar will explore the spectrum of acquisition strategies depending on selection of COTS solutions, modification of existing systems, or new competitive acquisitions.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E	Project C	ost Analysis: PB	2014 Unite	ed States	Special	Jperation	is Comma	and				DATE	: April 201	3	
APPROPRIATION/BL 0400: Research, Deve BA 7: Operational Sys	elopment,	Test & Evaluation,	Defense-	Wide			M NOME 0484BB: \	-			PROJE S1684: System	SOF Surf	ace Craft	Advance	d
Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 OC		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 Contrac
Combatant Craft Medium	C/Various	USMI / OIW:Gulfport, MS / Clackamas, OR Various	15.917	11.138	Sep 2012	3.833	Jul 2013	-		-		-	0.000	30.888	
Combatant Craft Heavy	C/Various	Various:Various	-	0.675	Sep 2012	-		-		-		-	0.000	0.675	
Prior Year Funding	C/Various	Various:Various	19.514	-		-		-		-		-	0.000	19.514	
	_	Subtotal	35.431	11.813		3.833		0.000		0.000		0.000	0.000	51.077	
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2 OC		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 Contrac
Combatant Craft Medium	MIPR	NSWC / TBD:Norfolk, VA / TBD	0.088	0.244		3.340	Aug 2013	-		-		-	0.000	3.672	
Combatant Craft Heavy	WR	TBD:TBD	-	0.180		-		-		-		-	0.000	0.180	
Prior Year Funding	C/Various	Various:Various	1.273	-		-		-		-		-	0.000	1.273	
		Subtotal	1.361	0.424		3.340		0.000		0.000		0.000	0.000	5.125	
Management Service	es (\$ in M	lillions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2 OC		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 Contrac
Combatant Craft Medium	C/Various	NSWC,:Norfolk, VA	1.638	0.220		0.230	Mar 2013	-		-		-	0.000	2.088	
Combatant Craft Medium	C/Various	NSWC:Crane, IN	-	0.125		0.150	Mar 2013	-		-		-	0.000	0.275	
Combatant Craft Medium	C/Various	Global Battlestaff & Program Support:MacDill AFB, FL	1.450	1.235		1.020	May 2013	-		-		-	0.000	3.705	
Prior Year Funding	C/Various	Various:Various	1.128	-		-		-		-		-	0.000	1.128	
		Subtotal	4.216	1.580		1.400		0.000		0.000		0.000	0.000	7.196	

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, Def BA 7: Operational Systems Development			SOF Surf	RE face Craft	PROJEC S1684: S Systems	-	ace Craft	Advance	d				
	l Prior /ears	FY 2	012	FY 2	:013	FY 2 Ba		FY 2 OC		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals 4		8.573		0.000		0.000		0.000	0.000	63.398			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014	4 Uni	ted S	States	s Sp	ecia	l Op	erati	ons	Cor	nma	nd												DAT	Γ Ε : /	April	20)13		
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development							e-Wide PE 1160484BB: SOF Surface Craft								ft S1684: SOF Surface Craft Adva Systems						anc	ed							
							2013	013 FY 2014 FY 2015					FY 2016					FY 2017			\square	FY 2018		8					
		1 2	2 3	4	1	2	3	4	1	2	3	4	1	2	: 3	6 4	1		2 3	3	4	1	2	3	4	1	2	3	4
Combatant Craft Medium																													
Proposals, Source Selection & Contract Award																													
Build Competitive Prototypes																													_
Developmental Test/Operational Test																													
Final Downselect																													
Low Rate Initial Production																													
Operational Evaluation		_																											
Initial Operational Capability																													
Combatant Craft Heavy																													
Risk Reduction Activities		_																											

Exhibit R-4A, RDT&E Schedule Details: 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 1160484BB: SOF Surface Craft	PROJECT S1684: SC Systems	DF Surface Craft Advanced								
		Systems									

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
Combatant Craft Medium				
Proposals, Source Selection & Contract Award	1	2012	4	2012
Build Competitive Prototypes	1	2012	4	2013
Developmental Test/Operational Test	4	2013	1	2014
Final Downselect	3	2013	4	2013
Low Rate Initial Production	3	2014	2	2015
Operational Evaluation	2	2015	3	2015
Initial Operational Capability	4	2015	4	2015
Combatant Craft Heavy				
Risk Reduction Activities	3	2012	4	2013

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget It	em Justificati	ion: PB 20 ⁻	14 United St	tates Speci	al Operatio	ns Comman	ıd		DATE: April 2013				
APPROPRIATION/BUDGET A 0400: Research, Development, BA 7: Operational Systems Dev		R-1 ITEM NOMENCLATURE PE 1160488BB: <i>Military Information Support Operations (MISO)</i>											
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
Total Program Element	57.051	2.694	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	59.745	
D476: Military Information Support Operations	57.051	2.694	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	59.745	

[#] 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

<u>Note</u>

Beginning in FY2014, this Program Element (PE) 1160488BB, Military Information Support Operations (MISO) has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

A. Mission Description and Budget Item Justification

The Military Information Support Operations (MISO) program element 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 program element funds transformational systems and equipment to conduct MISO in support of combatant commanders.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	2.990	0.000	0.000	-	0.000
Current President's Budget	2.694	0.000	0.000	-	0.000
Total Adjustments	-0.296	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.219	-			
SBIR/STTR Transfer	-0.077	-			

Change Summary Explanation

Funding:

FY 2012: Net decrease of \$0.296 million due to reprogramming for higher command priorities (-\$0.219 million) and a transfer of funds to Small Business Innovative Research (-\$0.077 million).

khibit R-2, RDT&E Budget Item Justification: PB 2014 United States	s Special Operations Command	DATE: April 2013
PPROPRIATION/BUDGET ACTIVITY 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 1160488BB: <i>Military Information Sup</i>	pport Operations (MISO)
FY 2013: None.		
FY 2014: None.		
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project	chibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command											
APPROPRIATION/BUDGET A 0400: <i>Research, Development,</i> BA 7: <i>Operational Systems De</i>				-	PROJECT D476: <i>Milit</i> <i>Operations</i>	ary Informa	ion Support					
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	57.051	2.694	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	59.745
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 sub-projects funded are grouped by the level of organization they support. Sub-projects include:

• 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 program is comprised of several interfacing systems that can stand alone or interoperate with other MISO systems as determined by mission requirements. This program includes the fixed site media production center; a light and medium media production capability; a distribution system that provides a product distribution link to systems worldwide; a media system; a transit case Fly-Away Broadcast System (FABS) that consists of a combination of amplitude modulation (AM), frequency modulation (FM), shortwave (SW), and television (TV) transmitters, and radio/TV production systems; software defined radio and a long range broadcast system which transmits analog and digital broadcasts. The long range broadcast system 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 direct broadcast electronic messages, which will 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	2.694	0.000	0.000
FY 2012 Accomplishments: Upgraded FABS and initiated preparations for operational assessment.			
Accomplishments/Planned Programs Subtotals	2.694	0.000	0.000

Exhibit R-2A, RDT&E Project Jus	xhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command											
APPROPRIATION/BUDGET ACTI 0400: Research, Development, Tes BA 7: Operational Systems Develo	st & Evaluation,	Defense-W	lide	PE 11	EM NOMEN 60488BB: <i>M</i> tions (MISO,	ilitary Inform	ation Suppor	PROJEC t D476: Mil Operatior	rt			
C. Other Program Funding Summary (\$ in Millions)												
			<u>FY 2014</u>	<u>FY 2014</u>	FY 2014					<u>Cost To</u>		
Line Item	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	Complete	Total Cost	
• PROC1: Military Information	4.142	27.417	0.000		0.000	0.000	0.000	0.000	0.000	0.000	31.559	
Support Operations Systems												
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

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB 2	2014 Unite	ed States	Special C	Operation	s Comma	and				DATE	: April 201	3	
APPROPRIATION/BI 0400: <i>Research, Dev</i> BA 7: <i>Operational Sy</i> :	elopment,	Test & Evaluation,	Defense-	Wide		PE 116		•		n Support	PROJE D476: M Operati	Ailitary Inf	ormation S	Support	
Product Developme	nt (\$ in Mi	llions)		FY	2012	FY 2	013		2014 Ise		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 Complete	Total Cost	Target Value of Contract
MISO Broadcast System	C/Various	Various:Various	22.507	2.694	Mar 2012	-		-		-		-	0.000	25.201	
Prior Year Funding - Completed Efforts	Various	Various:Various	34.544	-		-		-		-		-	0.000	34.544	
		Subtotal	57.051	2.694		0.000		0.000		0.000		0.000	0.000	59.745	
			All Prior Years	FY	2012	FY 2	013		2014 Ise		2014 CO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	57.051	2.694		0.000		0.000		0.000		0.000	0.000	59.745	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 201	4 Unit	ed S	tates	Sp	ecial	Op	erati	ons	Cor	nmar	nd											DA.	TE: /	٩pril	201	3		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluatio BA 7: Operational Systems Development	n, Def	ense	-Wia	le				ΡE	116	M N 0488 ons (BB:	Milit		-		tion	Sup	oort	D4	OJE 76: I erati	Milita	•	Infor	mati	on S	Supp	oort	
		FY	2012	2		FY	2013	3		FY 2	2014	,		FY 2	2015	5		FY	2016	5		FY	2017	7		FY	2018	5
	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
MISO Broadcast System																												,
Hardware development and systems engineering																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Specia	al Operations Command		[DATE: April	2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATUR PE 1160488BB: <i>Military Info</i> <i>Operations (MISO)</i>		PROJECT D476: <i>Milita</i> <i>Operations</i>	ry Informatio	on Support
	Schedule Details				
		Start		En	d
Events by Sub Project	Quarter	Start Year	Qu	En	d Year
Events by Sub Project MISO Broadcast System			Qu		-

THIS PAGE INTENTIONALLY LEFT BLANK

Exmon N=2, ND I GE Duuget ite	em Justificat	ion: PB 20	14 United St	ates Speci	al Operation	s Comman	d			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide		R-1 ITEM N PE 1160489	-	-	o Surveillan	ce Activitie	S		
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	-	8.923	7.620	3.304	-	3.304	6.599	5.959	5.632	5.750	Continuing	Continuin
S500C: SOF Global Video Surveillance Activities	-	8.923	7.620	3.304	-	3.304	6.599	5.959	5.632	5.750	Continuing	Continuin
A. Mission Description and Bu												
Details provided under separat	-		<u>-</u>									
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional	te cover. (<u>\$ in Million</u> dget get General Red Directed Red	<u>s)</u> uctions		FY 2012 8.923 8.923 0.000 -	FY 2013 7.620 7.620 0.000 -))	Y 2014 Bas 5.79 3.30 -2.48)3)4	FY 2014 OC	<u>20</u> - -		793 304
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional	te cover. (<u>\$ in Million</u> dget get General Red Directed Red Rescissions Adds Directed Tran gs	s) uctions luctions		8.923 8.923	7.62) 7.62)))	5.79 3.30)3)4	FY 2014 OC	<u>-</u> - -	5.7 3.3	793 304

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit R-2, RDT&E Budget Ite	em Justificat	ion: PB 20	14 United S	tates Speci	al Operation	s Comman	ld			DATE: Apr	ril 2013	
APPROPRIATION/BUDGET AC 0400: Research, Development, BA 7: Operational Systems Deve	Test & Evalua	ation, Defen	se-Wide		R-1 ITEM N PE 1160490	-	-	Enhancem	ents Intellig	ence		
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	-	8.479	16.386	16.021	-	16.021	16.225	15.225	16.387	16.727	Continuing	Continuin
S500D: SOF Operational Enhancements Intelligence	-	8.479	16.386	16.021	-	16.021	16.225	15.225	16.387	16.727	Continuing	Continuin
	1											
Details provided under separa	te cover.											
B. Program Change Summary	(\$ in Million	<u>s)</u>		FY 2012	FY 2013		Y 2014 Bas		FY 2014 OC	<u>co</u>	FY 2014 To	
B. Program Change Summary Previous President's Bud	(\$ in Million dget	<u>s)</u>		9.473	16.380	6	17.63	34	FY 2014 OC	<u>-</u>	17.0	634
<u>B. Program Change Summary</u> Previous President's Bud Current President's Bud	(\$ in Million dget	<u>s)</u>		9.473 8.479	16.380 16.380	6 6	17.63 16.02	34 21	FY 2014 OC	<u>20</u> - -	17.0 16.0	634 021
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional	(\$ in Million dget get General Red Directed Red	uctions		9.473	16.380	6 6	17.63	34 21	FY 2014 OC	<u>-</u> - -	17.0 16.0	634
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional • Congressional	(\$ in Million dget get General Red Directed Red Rescissions	uctions		9.473 8.479	16.380 16.380	6 6	17.63 16.02	34 21	FY 2014 OC	<u>-</u> - -	17.0 16.0	634 021
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional • Congressional • Congressional	(\$ in Million dget get General Red Directed Red Rescissions Adds	luctions		9.473 8.479	16.380 16.380	6 6	17.63 16.02	34 21	FY 2014 OC	20 - -	17.0 16.0	634 021
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional • Congressional • Congressional • Congressional • Congressional • Congressional	(\$ in Million dget get General Red Directed Red Rescissions Adds Directed Tra	luctions		9.473 8.479	16.380 16.380	6 6	17.63 16.02	34 21	FY 2014 OC	20 - - -	17.0 16.0	634 021
B. Program Change Summary Previous President's Bud Current President's Bud Total Adjustments • Congressional • Congressional • Congressional • Congressional • Congressional	(\$ in Million dget get General Red Directed Red Rescissions Adds Directed Tra gs ansfer	luctions luctions nsfers		9.473 8.479 -0.994 - - - - -	16.380 16.380	6 6	17.63 16.02	34 21 13	FY 2014 OC	20 - -	17.(16.(-1.(634 021

THIS PAGE INTENTIONALLY LEFT BLANK