Department of Defense Fiscal Year (FY) 2015 Budget Estimates

March 2014



United States Special Operations Command

Defense Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Department of Defense FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority (Dollars in Thousands)

10 Feb 2014

Appropriation	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
Research, Development, Test & Eval, DW	461,383	356,662	12,000	368,662	508,048
Total Research, Development, Test & Evaluation	461,383	356,662	12,000	368,662	508,048

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Department of Defense FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority (Dollars in Thousands)

10 Feb 2014

Summary Recap of Budget Activities	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
Applied Research	37,515	29,246		29,246	39,750
Advanced Technology Development	44,546	46,809		46,809	57,622
Operational System Development	379,322	280,607	12,000	292,607	410,676
Total Research, Development, Test & Evaluation	461,383	356,662	12,000	368,662	508,048
Summary Recap of FYDP Programs					
Intelligence and Communications	27,977	21,488		21,488	24,580
Special Operations Forces	433,406	335,174	12,000	347,174	483,468
Total Research, Development, Test & Evaluation	461,383	356,662	12,000	368,662	508,048

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10 Feb 2014

Summary Recap of Budget Activities	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
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Total Research, Development, Test & Evaluation	461,383	356,662	12,000	368,662	508,048

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Defense-Wide FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority (Dollars in Thousands)

10 Feb 2014

Appropriation	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
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Total Research, Development, Test & Evaluation	461,383	356,662	12,000	368,662	508,048

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

Line No	Program Element Number	Item 	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	S e c
25	1160401BB	BB SOF Technology Development		37,515	29,246		29,246	39,750	U
	Applied Research			37,515	29,246		29,246	39,750	
74	1160402BB	SOF Advanced Technology Development	03	39,469	46,809		46,809	57,622	U
75	1160422BB	Aviation Engineering Analysis	03	635					U
76	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,442					U
	Advan	ced Technology Development		44,546	46,809		46,809	57,622	
208	0304210BB	Special Applications for Contingencies	07	15,172	15,652		15,652	19,294	U
221	0305208BB	Distributed Common Ground/Surface Systems	07	7,083	5,195		5,195	5,286	U
226	0305219BB	MQ-1 Fredator A UAV	07	1,123	641		641		U
228	0305231BB	MQ-8 UAV	07	4,599					U
242	1105219BB	MQ-9 UAV	07	2,610	1,314	12,000	13,314	9,702	U
243	1105232BB	RQ-11 UAV	07					259	ប
244	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	10,995					U
245	1160403BB	Aviation Systems	07	84,254	135,149		135,149	164,233	U
246	1160404BB	Special Operations Tactical Systems Development	07	701					U
247	1160405BB	Intelligence Systems Development	07	23,822	7,705		7,705	9,490	U
248	1160408BB	Operational Enhancements	07	56,754	42,620		42,620	75,253	U
249	1160421BB	Special Operations CV-22 Development	07	2,076					U
250	1160427BB	Mission Training and Preparation Systems (MTPS)	07	8,013					U
251	1160429BB	AC/MC-130J	07	17,809			· · · ·		U
252	1160431BB	Warrior Systems	07		15,470		15,470	24,661	υ

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

Line No	Program Element Number	Item 	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY Total	2014 Enacted	FY 2015 Base	5 e c
253	1160432BB	Special Programs	07		7,424			7,424	20,908	U
254	1160474BB	SOF Communications Equipment and Electronics Systems	07	1,976						U
255	1160476BB	SOF Tactical Radio Systems	07	2,697						U
256	1160477BB	SOF Weapons Systems	07	1,610						υ
257	1160478BB	SOF Soldier Protection and Survival Systems	07	3,748						υ
258	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07	3,649						υ
259	1160480BB	SOF Tactical Vehicles	07	10,935	2,206			2,206	3,672	υ
260	1160481BB	SOF Munitions	07	1,346						U
261	1160482BB	SOF Rotary Wing Aviation	07	25,166						Ų
262	1160483BB	Maritime Systems	07	66,263	29,481			29,481	57,905	U
263	1160484BB	SOF Surface Craft	07	7,713						υ
264	1160489BB	Global Video Surveillance Activities	07	6,999	3,304			3,304	3,788	U
265	1160490BB	Operational Enhancements Intelligence	07	12,209	14,446			14,446	16,225	Ų
	Opera	tional System Development		379,322	280,607	12,000		292,607	410,676	
Tota	l Research,	Development, Test & Eval, DW		461,383	356,662	12,000	·	368,662	508,048	

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U.S., Special Operations Command FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority (Dollars in Thousands)

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

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Line No	Program Element Number	Item 	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	S e c
25	1160401BB	SOF Technology Development	02	37,515	29,246		29,246	39,750	IJ
Aj	oplied Rese	earch		37,515	29,246		29,246	3 9 ,750	
74	1160402BB	SOF Advanced Technology Development	03	39,469	46,809		46,809	57,622	U
75	1160422BB	Aviation Engineering Analysis	03	635					IJ
76	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,442					U
A	dvanced Tec	hnology Development		44,546	46,809		46,809	57,622	
208	0304210BB	Special Applications for Contingencies	07	15,172	15,652		15,652	19,294	U
221	0305208BB	Distributed Common Ground/Surface Systems	07	7,083	5,195		5,195	5,286	U
226	0305219BB	MQ-1 Predator A UAV	07	1,123	641		641		U
228	0305231BB	MQ-8 UAV	07	4,599					U
242	1105219BB	MQ-9 UAV	07	2,610	1,314	12,000	13,314	9,702	U
243	1105232BB	RQ-11 UAV	07					259	U
244	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	10,995					υ
245	1160403BB	Aviation Systems	07	84,254	135,149		135,149	164,233	U
246	1160404BB	Special Operations Tactical Systems Development	07	701					U
247	1160405BB	Intelligence Systems Development	07	23,822	7,705		7,705	9,490	U
248	1160408BB	Operational Enhancements	07	56,754	42,620		42,620	75,253	U
249	1160421BB	Special Operations CV-22 Development	07	2,076					IJ
250	1160427BB	Mission Training and Preparation Systems (MTPS)	07	8,013					U
251	1160429вв	AC/MC-130J	07	17,809	· · · · ·				Ų
252	1160431BB	Warrior Systems	07		15,470		15,470	24,661	U

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U.S., Special Operations Command FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority (Dollars in Thousands)

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

Line No	Program Element Number	gram ment ber Item 		FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 'Total 	2014 Enacted	FY 2015 Base	S e c
253	1160432BB	Special Programs	07		7,424			7,424	20,908	U
254	1160474BB	SOF Communications Equipment and Electronics Systems	07	1,976						U
255	1160476BB	SOF Tactical Radio Systems	07	2,697						Ų
256	1160477вв	SOF Weapons Systems	07	1,610						U
257	1160478BB	SOF Soldier Protection and Survival Systems	07	3,748						U
258	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07	3,649						υ
259	1160480BB	SOF Tactical Vehicles	07	10,935	2,206			2,206	3,672	U
260	11604 81 BB	SOF Munitions	07	1,346						U
261	1160482BB	SOF Rotary Wing Aviation	07	25,166						U
262	1160483BB	Maritime Systems	07	66,263	29,481			29,481	57,905	U
263	1160484BB	SOF Surface Craft	07	7,713						U
264	1160489BB	Global Video Surveillance Activities	07	6,999	3,304			3,304	3,788	U
265	1160490BB	Operational Enhancements Intelligence	07	12,209	14,446			14,446	16,225	Ų
٥	perational	System Development		379,322	280,607	12,000		292,607	410,676	
Tota	l U.S., Spe	cial Operations Command		461,383	356,662	12,000		368,662	508,048	

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Line Item	Budget Activity	Program Element Number	Program Element Title Page			
25	02	1160401BB	SOF Technology Development Volume 5 - 1			

Budget Activity 03: Advanced Technology Development (ATD) Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line Item	Budget Activity	Program Element Number	Program Element Title Pag	je
74	03	1160402BB	SOF Advanced Technology Development Volume 5 -	7
75	03	1160422BB	Aviation Engineering Analysis	7
76	03	1160472BB	SOF Information and Broadcast Systems Advanced TechnologyVolume 5 - 2	21

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Budget Activity 07: Operational Systems Development Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

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221	07	0305208BB	Distributed Common Ground/Surface Systems	Volume 5 - 31
226	07	0305219BB	MQ-1 Unmanned Aerial Vehicle (UAV)	Volume 5 - 39
228	07	0305231BB	MQ-8 UAV	
242	07	1105219BB	MQ-9 Unmanned Aerial Vehicle	Volume 5 - 47
243	07	1105232BB	RQ-11 UAV	Volume 5 - 53
244	07	1160279BB	Small Business Innovative Research	Volume 5 - 59
245	07	1160403BB	Aviation Systems	Volume 5 - 65
246	07	1160404BB	Special Operations Tactical Systems Development	Volume 5 - 95
247	07	1160405BB	Intelligence Systems Development	Volume 5 - 99
248	07	1160408BB	Operational Enhancements	
249	07	1160421BB	Special Operations CV-22 Development	Volume 5 - 111
250	07	1160427BB	Mission Training and Preparation Systems (MTPS)	Volume 5 - 117
251	07	1160429BB	AC/MC-130J	Volume 5 - 123
252	07	1160431BB	Warrior Systems	
253	07	1160432BB	Special Programs	Volume 5 - 165

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255	07	1160476BB	SOF Tactical Radio Systems	Volume 5 - 173
256	07	1160477BB	SOF Weapons Systems	Volume 5 - 179
257	07	1160478BB	SOF Soldier Protection and Survival Systems	Volume 5 - 185
258	07	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	Volume 5 - 195
259	07	1160480BB	SOF Tactical Vehicles	Volume 5 - 201
260	07	1160481BB	SOF Munitions	Volume 5 - 209
261	07	1160482BB	SOF Rotary Wing Aviation	Volume 5 - 215
262	07	1160483BB	Maritime Systems	Volume 5 - 223
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Distributed Common Ground/Surface Systems	0305208BB	221	07Volume 5 - 31
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Intelligence Systems Development	1160405BB	247	07Volume 5 - 99
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MQ-8 UAV	0305231BB	228	07Volume 5 - 45
MQ-9 Unmanned Aerial Vehicle	1105219BB	242	07Volume 5 - 47
Maritime Systems	1160483BB	262	07 Volume 5 - 223
Mission Training and Preparation Systems (MTPS)	1160427BB	250	07 Volume 5 - 117
Operational Enhancements	1160408BB	248	07 Volume 5 - 109
Operational Enhancements Intelligence	1160490BB	265	07Volume 5 - 247
RQ-11 UAV	1105232BB	243	07Volume 5 - 53
SOF Advanced Technology Development	1160402BB	74	03 Volume 5 - 7
SOF Communications Equipment and Electronics Systems	1160474BB	254	07 Volume 5 - 167
SOF Information and Broadcast Systems Advanced Technology	1160472BB	76	03Volume 5 - 21

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Program Element Title	Program Element Number	Line Item	Budget Activity Page
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SOF Rotary Wing Aviation	1160482BB	261	07Volume 5 - 215
SOF Soldier Protection and Survival Systems	1160478BB	257	07Volume 5 - 185
SOF Surface Craft	1160484BB	263	07 Volume 5 - 239
SOF Tactical Radio Systems	1160476BB	255	07 Volume 5 - 173
SOF Tactical Vehicles	1160480BB	259	07 Volume 5 - 201
SOF Technology Development	1160401BB	25	02 Volume 5 - 1
SOF Visual Augmentation, Lasers and Sensor Systems	1160479BB	258	07 Volume 5 - 195
SOF Weapons Systems	1160477BB	256	07 Volume 5 - 179
Small Business Innovative Research	1160279BB	244	07Volume 5 - 59
Special Applications for Contingencies	0304210BB	208	07Volume 5 - 25
Special Operations CV-22 Development	1160421BB	249	07 Volume 5 - 111
Special Operations Tactical Systems Development	1160404BB	246	07Volume 5 - 95
Special Programs	1160432BB	253	07 Volume 5 - 165
Warrior Systems	1160431BB	252	07 Volume 5 - 129

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

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Acronym	Full Naming Convention	
AAR	After Action Review	
ACT	Aft Cabin Trainer	
ADS-B	Automatic Dependent Surveillance-Broadcast	
AECV	All Environment Capable Variant	
AOBPS	Aircraft Occupant Ballistic Protection System	
AFSB	Afloat Forward Staging Base	
AFSOC	Air Force Special Operations Command	
ALGL	Advanced Lightweight Grenade Launcher	
ANC	Active Noise Cancellation	
AoA	Analysis of Alternatives	
APAS	Active Parallet Actuator System	
ARSOA	Army Special Operations Aviation	
ASE	Aircraft Survivability Equipment	
ASOMS	Advanced Special Operations Management System	
ATD	Advanced Technology Demonstration	
ATD/TB	AC-130U Gunship Aircrew Training Devices/Testbed	
ATPIALS	Advanced Tactical Precision Illuminator Aiming Laser System	
ATV	All Terrain Vehicle	
AvFID	Aviation Foreign Internal Defense	
BFT	Blue Force Tracking	
BGAD	Blue Grass Army Depot	
BGAN	Broadband Global Area Network	
BMC	Battle Management Center	
C2	Command and Control	
C3	Command, Control, and Communications	
C4	Command, Control, Communications, and Computer	
C4I	Command, Control, Communications, Computers, and Intelligence	
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance	
C4IAS	Command, Control, Communications, Computers, and Intelligence Automation System	
СААР	Common Avionics Architecture for Penetration	
CAAS	Common Avionics Architecture Systems	
CAPS	Counter-Proliferation Analysis and Planning System	
CAR	Combat Assault Rifle	
CAS	Close Air Support	
CASEVAC	Casualty Evacuation	
CCFLIR	Combatant Craft Forward Looking Infrared Radar	
ССН	Combatant Craft - Heavy	

CCM	Combatant Craft - Medium
CDAS	Cognitive Decision Aiding System
CDU	Control Display Units
CERP	Capital Equipment Replacement Plan
CESE	Civil Engineering Support Equipment
CFE	Contractor Furnished Equipment
CIMDPS	Civil Information Management Data Processing System
CMNS	Combat Mission Needs Statement
CNVD	Clip-On Night Vision Device
COTI	Clip-On Thermal Imagers
COTS	Commercial-Off-The-Shelf
СР	Counter-Proliferation
CPD	Capabilities Production Document
DAFCS	Digital Advanced Flight Control System
DCGS	Data Common Ground/Surface System
DCS	Dry Combat Submersible
DDP	Detachment Deployment Packages
DDS	Dry Deck Shelter
DF	Direction Finding
DIA	Defense Intelligence Agency
DMO/DMT/DMR	Distributed Mission Operations/Distributed Mission Training/Distributed Mission Rehearsal
DMTRS	Distributed Mission Training and Rehearsal System
DoD	Department of Defense
DT&E	Development Test and Evaluation
DVE	Degraded Visual Environment
ECOS	Enhanced Combat Optical Sights
ECP	Engineering Change Proposal
EDM	Engineering Development Model
EGLM	Enhanced Grenade Launcher Module
EMD	Engineering and Manufacturing Development
EO/IR	Electro-Optical Infrared
EOQ	Economic Order Quantity
ESA	Enhanced Situational Awareness
ETI	Evolutionary Technology Insertion
EW	Electronic Warfare
FAA	Federal Aviation Administration
FABS	Fly-Away Broadcast System
FCD	Field Computing Devices

FFT	Friendly Force Trackers
FLIR	Forward Looking Infrared Radar
FMBS	Family of Muzzle Brake Suppressors
FMV	Full Motion Video
FMV VDH-L	Full Motion Video Distribution Hub-Light
FoS	Family of Systems
FSOV	Family of SOF Vehicles
FSWS	Family of Sniper Weapon System
FUT	Fuselage Trainer
FW	Fixed Wing
FY	Fiscal Year
GATM	Global Air Traffic Management
GEO	Geological
GFE	Government Furnished Equipment
GIG	Global Information Grid
GMV	Ground Mobility Vehicles
GOTS	Government-Off-the-Shelf
GPPU	General Purpose Processing Units
GPS	Global Positioning System
GSK	Ground Signal Intelligence Kit
GWOT	Global War on Terrorism
HD	High Definition
HF	High Frequency
HFIS	Hostile Fire Indicator System
HFTTL	Hostile Forces Tagging, Tracking, and Locating
нні	Hand Held Imager
HLM	Hand-held Laser Marker
HPRT	High Power Remote Transmitters
HSAC	High Speed Assault Craft
IED	Improvised Explosive Devices
IM	Insensitive Munitions
INOD	Improved Night/Day Observation/Fire Control Device
IOC	Initial Operational Capability
IOT&E	Initial Operational Test & Evaluation
IR	Infrared
IRCM	Infrared Countermeasures
ISP	Integrated Survey Plan
ISR	Intelligence Surveillance and Reconnaissance

ISR&T	Intelligence, Surveillance, Reconnaissance, and Targeting
IT	Information Technology
JBS	Joint Base Station
JCTD	Joint Concept Technology Demonstration
JNTC	Joint National Training Center
JOS	Joint Operational Stocks
JSOTF	Joint Special Operations Task Force
JTCITS	Joint Tactical C4I Information Transceiver System
JTF	Joint Task Force
JTWS	Joint Threat Warning System
LAM	Laser Acquisition Marker
LAW	Light Assault Weapon
LFT&E	Live Fire Test and Evaluation
LMG	Lightweight Machine Gun
LOS	Line of Sight
LPI/LPD	Low Probability of Intercept/Low Probably of Detection
LRBS	Long Range Broadcast System
LRIP	Low Rate Initial Production
LRU	Line Replaceable Unit
LTATV	Lightweight Tactical All Terrain Vehicle
MAAWS	Multi-Purpose Anti-Armor/Anti-Personnel Weapons System
MALET	Medium Altitude Long Endurance Tactical
MARSOC	U.S. Marine Special Operations Command
MCADS	Maritime Craft Air Delivery System
MDAP	Major Defense Acquisition Program
MEDVAC	Medical Evacuation
MELB	Mission Enhancement Little Bird
MFD	Multi-Function Display
MFP-11	Major Force Program-11
MICH	Modular Integrated Communications Helmet
MIP	Military Intelligence Program
MISO	Military Information Support Operations
MISOB	Military Information Support Operations Broadcast
MK V	Mark V Combatant Craft
MLE	Military Liaison Element
MPC	Media Production Center
МРК	Mission Planning Kits
MQ-1	Predator Unmanned Vehicle

MQ-9	Reaper Unmanned Vehicle
MRAP	Mine Resistant Ambush Protected
MS	Milestone
MSSEP	Mobile SOF Strategic Entry Points
MTPS	Mission Training and Preparation System
MWS	Missile Warning System
NAVAIR	Naval Aviation Systems Command
NAVSEA	Naval Systems Engineering Command
NDI	Non-Developmental Item
NGA	National Geo-Spatial Intelligence Agency
NGFLIR	Next Generation Forward Looking Infrared Radar
NGLS	Next Generation Loudspeaker Systems
NIC	National Intelligence Community
NIPR	Non-Classified Internet Protocol
NRE	Non-Recurring Engineering
NSAV	Non-Standard Aviation
NSCV	Non-Standard Commercial Vehicle
NSM	Non-Standard Materiel
NSSS	National Systems Support to SOF
NSW	Naval Special Warfare
NSWC	Naval Special Warfare Command
NVD	Night Vision Devices
000	Overseas Contingency Operations
OEF	Operation Enduring Freedom
OFP	Operational Flight Program
OSD	Office of the Secretary of Defense
OT&E	Operational Test and Evaluation
OUSD(I)	Office of the Undersecretary for Defense, Intelligence
P3I	Pre-Planned Product Improvement
PE	Program Element
PED	Processing, Exploitation, and Dissemination
PEO	Program Executive Office
PGL	Precision Geo Location
PGM	Precision Guided Munitions
PN	Partner Nation
PSP	Precision Strike Package
PSR	Precision Sniper Rifle
QL-CBA	Quick-Look Capabilities-Based Assessment

QoS	Quality of Service	
RC-IED	Radio Counter-Improvised Explosive Device	
RDT&E	Research, Development, Test, and Evaluation	
REITS	Rapid Exploitation of Innovative Technologies	
RF	Radio Frequency	
RFCM	Radio Frequency Countermeasures	
RIB	Rigid Inflatable Boat	
RIS	Radio Interface System	
RIS	Rail Interface Systems	
RPG	Rocket Propelled Grenade	
RRT	Rapid Reliable Targeting	
RSTA	Reconnaissance, Surveillance, and Targeting Acquisition	
RW	Rotary Wing	
RWR	Radar Warning Receiver	
S&T	Science & Technology	
SAFC	Special Applications for Contingencies	
SAFEAIR	Safe Aircraft Recovery	
SAT	Simplified Acquisition Threshold	
SATCOM	Satellite Communications	
SAW	Small Arms and Weapons	
SBIR	Small Business Innovative Research	
SBUD	Simulator Block Updates	
SDN	SOF Deployable Node	
SDV	Sea, Air, Land (SEAL) Delivery Vehicle	
SEAL	Sea, Air, Land	
SEALION	Sea, Air, Land, Insertion Observation Neutralization	
SFA	Security Forces Assistance	
SIE	SOF Information Environment	
SIGINT	Signals Intelligence	
SIPR	Classified Internet Protocol	
SIRFC	Suite of Integrated Radar Frequency Countermeasures	
SKR	Silent Knight Radar	
SO	Special Operations	
SOAR(A)	Special Operations Aviation Regiment (Airborne)	
SOCRATES	Special Operations Command, Research, Analysis and Threat Evaluation System	
SOF	Special Operations Forces	
SOFSA	SOF Forces Support Activity	
SOMPE	Special Operations Mission Planning Environment	

SOPGM	Standoff Precision Guided Munitions
SOTVS	Special Operations Tactical Video System
SOW	Special Operations Wing
SRTV	Secure Real-Time Video
SPCOM	Special Communications Field Segment - Enterprise
SPEAR	SOF Personal Equipment Advanced Requirements
SSE	Sensitive Site Exploitation
SSR	Sniper Support Rifle
STC	SOF Tactical Communications
STUASLO	Small Tactical Unmanned Aerial Systems
SUAS	Small Unmanned Aircraft System
SWALIS	Special Warfare Automated Logistics Information System
SWCS	Shallow Water Combat Submersible
TACLAN	Tactical Local Area Network
TAS	Threat Awareness System
ТССС	Tactical Combat Casualty Care
TF/TA	Terrain Following/Terrain Avoidance
TSOC	Theater Special Operations Command
тт	Team Transportable
ТТР	Tactics, Techniques and Pocedures
UAV	Unmanned Aerial Vehicle
UCI	Undersea Clandestine Insertion
USASOC	U.S. Army Special Operations Command
USG	U.S. Government
USSOCOM	U. S. Special Operations Command
STOL	Short Take-Off and Landing
VAS-BM	Visual Augmentation-Binocular?Monocular
VASWA	Visual Augmentation System-Weapns Accessories
VBL	Visible Bright Light
VTC	Video Teleconferencing
WB SOTM	Wide Band SATCOM On-The-Move
WMD	Weapons of Mass Destruction
WPNAC	Weapons Accessories
WST	Weapons System Trainer

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command								Date: Marc	ch 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research			R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing
S100: SOF Technology Development	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This program element enables USSOCOM to conduct studies and develop laboratory prototypes for applied research and advanced technology development, as well as leverage other organizations' technology projects that may not otherwise be affordable within MFP-11. Applying small incremental amounts of investments to DoD, other government agencies, and commercial organizations allows USSOCOM to influence the direction of technology development or the schedule against which it is being pursued, and to acquire emerging technologies for Special Operations Forces. This project provides an investment strategy for USSOCOM to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, human endurance and sensory performance, and technology development objectives.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	FY 2015 OCO	<u>FY 20</u>	15 Total
Previous President's Budget	28.739	29.246	29.750	-		29.750
Current President's Budget	37.515	28.307	39.750	-		39.750
Total Adjustments	8.776	-0.939	10.000	-		10.000
 Congressional General Reductions 	-3.363	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-0.055	-				
Congressional Adds	12.852	-				
 Congressional Directed Transfers 	-	-				
Reprogrammings	0.181	-				
SBIR/STTR Transfer	-0.839	-0.939				
Other Adjustments	-	-	10.000	-		10.000
Congressional Add Details (\$ in Millions, and Inclu	udes General Redu	<u>ictions)</u>		ſ	FY 2013	FY 2014
Project: S100: SOF Technology Development						
Congressional Add: Unfunded Requirement - Cor		11.80	6 -			

Congressional Add Subtotals for Project: S100 11.806

Congressional Add Totals for all Projects

11.806

Exhibit	R-2, RDT&E Budget Item Justification: PB 2015 United States Spec	ial Operations Command	Date: March 2014
Approp 0400: R Applied	priation/Budget Activity Research, Development, Test & Evaluation, Defense-Wide I BA 2: Research	R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development	
	Change Summary Explanation Funding:		
	FY 2013: Net increase of \$8.776 million is due to sequestration reducti (\$12.852 million), reprogramming to the Shark Bite - Wound Stasis Pro Program (-\$0.839 million).	ions (-\$3.363 million), congressional rescissions (-\$0.055 gram (\$0.181 million), and transfer of funds to Small Busir	million), congressional add ness Innovative Research
	Sequestration Impacts: Re-prioritized and adjusted funding to various	projects.	
	FY 2014: Decrease of \$0.939 million is due to transfer of funds to Sma	II Business Innovative Research Program/Small Business	Technology Transfer Program.
	FY 2015: Increase of \$10.000 million develops technologies for increase	sed investment in core technologies of interest to the SOF	warfighter.
	Schedule: None.		
	Technical: None.		

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command								Date: Marc	h 2014			
Appropriation/Budget Activity 0400 / 2				R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development				Project (Number/Name) S100 / SOF Technology Development				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S100: SOF Technology Development	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing

[#] The FY 2015 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 SOF Technology Demonstration effort include:

• SOF 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 2013:

• Congressional add: Unfunded Requirement - Increased development of small unit dominance capabilities addressing highest priority unfunded requirements. Began assessing the integration of critical technologies focused on providing the dismounted special operator leap ahead capabilities via innovative collaborative processes. Initial focus is to initiate revolutionary technical advancement in warfighter protection and augmentation to maximize kinetic potential and minimize the risk to Special Operations Force's direct assaulters.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: SOF Technology Development	10.963	12.028	22.624
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Spe	Date: N	Date: March 2014				
Appropriation/Budget Activity 0400 / 2	ropriation/Budget Activity R-1 Program Element (Number/Name) I 0 / 2 PE 1160401BB / SOF Technology S Development Development S					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015		
Continued ongoing technology development sub-projects in areas such a advanced lightweight armor and materials; multi-domain mobility platform alternative fuel power systems and eco-friendly energy devices. Advance tactics; sensor and processing improvements; improved interfaces and di of methods to reduce operator load and provide advanced protection. De window of target engagement (escalation of force); pursued enhancement intentions and movement; and continued development and exploration ad technology maturity metrics, transferred successful projects into program	is, but not limited to: reduced signature technologies is; long duration small form factor power supplies; ed technologies for combat medical equipment and isplays; and secure communications. Continued pur- eveloped technologies for improved and widened its to technologies that can aid in detection of enemy cross the electromagnetic spectrum. Based upon ag s of record.	eed				
FY 2014 Plans: Continue ongoing technology development sub-projects in areas such as advance lightweight armor and materials; long duration small form factor Advance technologies for combat medical equipment and tactics; sensor displays; and secure communications. Continue pursuit of methods to re Develop technologies for improved and widened window of target engage technologies that can aid in detection of enemy intentions and movement electromagnetic spectrum. Based upon agreed technology maturity metr	e, but not limited to: reduce signature technologies; power supplies; and alternative fuel power systems. and processing improvements; improve interfaces a educe operator load and provides advanced protectio ement (escalation of force); pursue enhancements to t; and continues development and exploration across rics, transfer successful projects into programs of rec	nd n. the ord.				
FY 2015 Plans: Continues ongoing technology development sub-projects in areas such a advanced lightweight armor and materials; long duration small form facto Advances technologies for combat medical equipment and tactics; senso displays; and secure communications. Continues pursuit of methods to r Develops technologies for improved and widened window of target engage technologies that can aid in detection of enemy intentions and movement electromagnetic spectrum. Based upon agreed technology maturity metr Continues the integration of critical technologies focused on providing the via innovative collaborative processes. Focus is on delivering prototype s continues development of situational awareness and command/control systems.	is, but not limited to: reduced signature technologies r power supplies; and alternative fuel power systems or and processing improvements; improves interfaces educe operator load and provides advanced protection gement (escalation of force); pursues enhancements t; and continues development and exploration across rics, transfers successful projects into programs of re e dismounted special operator leap-ahead capabilities system for soldier protection and augmentation and ystems.	and on. to the cord.				
Title: Tagging, Tracking, and Locating Technologies (TTL)		12.837	14.165	14.896		
FY 2013 Accomplishments: Specific objectives, priorities, technical approaches, and potential operati exploit nanotechnology, biotechnology and chemistry for application to T	onal applications are classified. Continued projects t TL and TTL-enabling systems. Initiated projects linke	o d				

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special C			Date: M	arch 2014		
Appropriation/Budget Activity 0400 / 2	Project (N S100 / SO	umber/N F Techno	lame) blogy Develop	oment		
B. Accomplishments/Planned Programs (\$ in Millions)			FY	2013	FY 2014	FY 2015
to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approv Assessment (QL-CBA).	ved annual TTL Quick-Look Capabi	ilities-Basec				
FY 2014 Plans: Specific objectives, priorities, technical approaches, and potential operational a exploit nanotechnology, biotechnology and chemistry for application to TTL and the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved	applications are classified. Continue d TTL-enabling systems. Initiate pr d annual TTL QL-CBA.	e projects to ojects linke	d to			
FY 2015 Plans: Specific objectives, priorities, technical approaches, and potential operational a exploit nanotechnology, biotechnology and chemistry for application to TTL and the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved	applications are classified. Continue d TTL-enabling systems. Initiates p d annual TTL QL-CBA.	es projects projects linke	to ed to			
Title: Classified				1.909	2.114	2.230
FY 2013 Accomplishments: Details provided under separate cover.						
FY 2014 Plans: Details provided under separate cover.						
<i>FY 2015 Plans:</i> Details provided under separate cover.						
	Accomplishments/Planned Prog	grams Subt	otals	25.709	28.307	39.750
		FY 2013	FY 2014			
Congressional Add: Unfunded Requirement - Congressional Add was reduce	ed by sequestration \$1.046 million.	11.806	-			
FY 2013 Accomplishments: Increased development of small unit dominance priority unfunded requirements. Began assessing the integration of critical tech the dismounted special operator leap ahead capabilities via innovative collabor on revolutionary technical advancement in warfighter protection and augmenta and minimize the risk to SOF's direct assaulters.	capabilities addressing highest nnologies focused on providing rative processes. Initial focus is tion to maximize kinetic potential					
	Congressional Adds Subtotals	11.806	-			
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A						

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States	Date: March 2014											
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development	Project (Number/Name) S100 / SOF Technology Development										
C. Other Program Funding Summary (\$ in Millions)	· · · ·											
<u>Remarks</u>												
<u>D. Acquisition Strategy</u> N/A												
E. Performance Metrics												
N/A												
Exhibit R-2, RDT&E Budget Item	xhibit R-2, RDT&E Budget Item Justification: PB 2015 United States S									Date: March 2014		
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Appropriation/Budget Activity 0400: Research, Development, Te Advanced Technology Developme	A 3:	R-1 Program Element (Number/Name) PE 1160402BB / SOF Advanced Technology Development										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	1,005.792	39.469	45.306	57.622	-	57.622	56.177	56.311	65.623	66.662	Continuing	Continuing
S200: Advanced Technology Development	1,005.792	39.469	39.576	39.515	-	39.515	43.482	43.328	46.654	47.340	Continuing	Continuing
SF101: Engineering Analysis	0.000	-	0.847	12.978	-	12.978	7.511	7.688	13.563	13.819	Continuing	Continuing
S225: Information and Broadcast Systems Adv Tech	0.000	-	4.883	5.129	-	5.129	5.184	5.295	5.406	5.503	Continuing	Continuing

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

<u>Note</u>

Beginning in FY 2014 Special Operations Forces (SOF) Advanced Technology Development represents the approved consolidation of SOF 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 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.

Engineering Analysis provides rapid response capability for the investigation, evaluation, and demonstration of technologies for SOF platform and soldier system unique 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 platform and soldier system requirements.

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 into an acquisition program. The project 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 U	nited States Spec	ial Operations Cor	nmand	Date	: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-V Advanced Technology Development (ATD)	Vide I BA 3:	R-1 Program El PE 1160402BB /			
B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	45.317	46.809	47.630	-	47.630
Current President's Budget	39.469	45.306	57.622	-	57.622
Total Adjustments	-5.848	-1.503	9.992	-	9.992
 Congressional General Reductions 	-3.853	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.060	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.562	-			
SBIR/STTR Transfer	-1.373	-1.503			
Other Adjustments	-	-	9.992	-	9.992

Change Summary Explanation

Funding:

FY 2013: Decrease of \$5.286 million is due to Sequestration reductions (-\$3.853 million), congressional rescissions (-\$0.060 million), a reprogramming for higher command priorities (-\$0.562 million) and transfer of funds to Small Business Innovative Research (-\$1.373 million).

Sequestration Impacts: Re-prioritized and adjusted funding to various projects

FY 2014: Decrease of \$1.503 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer Program.

FY 2015: Increase of \$9.992 million is due to a realignment to Advanced Technology Development for increased efforts to incorporate core technology and demonstrate relevant capability in support of the SOF warfighter.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	stification:	: PB 2015 U	Inited States	s Special O	Operations Command						Date: March 2014		
Appropriation/Budget Activity 0400 / 3						R-1 Program Element (Number/Name) PE 1160402BB / SOF Advanced Technology Development				Project (Number/Name) S200 I Advanced Technology Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
S200: Advanced Technology Development	1,005.792	39.469	39.576	39.515	-	39.515	43.482	43.328	46.654	47.340	Continuing	Continuing	

[#] The FY 2015 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 SOF Special Technology Development efforts 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 in collaboration with Department Of Defense (DoD) activities.

• 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 ATDs 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.

• National to Theater Transition Sub-Project. Conduct additional testing required to transition items from national forces to theater forces.

• Classified Sub-Project (provided under separate cover).

• The Special Communications Field Segment-Enterprise program includes organizations, practices, processes, services, networks, systems and subsystems that manage and provide clandestine exchange of information between elements (field-to-field, field-to-base, base-to-field).

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special O	perations Command		Date: M	arch 2014			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 1160402BB / SOF Advanced Technology Development	Project (N S200 / Ad	roject (Number/Name) 200 I Advanced Technology Development				
Signature Management Technology Demonstrator (details provided under se	parate cover).						
B. Accomplishments/Planned Programs (\$ in Millions)		F	2013	FY 2014	FY 2015		
Title: Rapid Exploitation of Innovative Technology (REITS) for SOF Sub-Project	t		5.438	-	-		
FY 2013 Accomplishments: Continued to identify and develop technologies which can rapidly transition to s programs of record or direct fielding. Capabilities such as, but not limited to: S communications applications, improved target engagement, improved materials traditional power and energy solutions, and improved electronic warfare solution and limited field assessment.	upport the warfighter with transition paths into OF mobility platform improvements, mobile s, improved biometrics and forensics tools, no ns will be evaluated for development, prototyp	n- ing,					
Title: Special Technology Experimentation Sub-Project			1.242	-	-		
FY 2013 Accomplishments: Conducted field experimentations at various venues to facilitate technology inse	ertion.						
Title: SOF Special Technology Sub-Project			9.531	12.371	20.018		
FY 2013 Accomplishments: Continued to develop and insert technology into existing programs. Technolog signature profiles; improved weapons; lightweight armor and materials; alternat devices; long duration, reduced size, high output power supplies; and technolog development of technologies supporting undersea mobility; developed ground r survivability. Evaluated and developed sensors across the electromagnetic speupon agreed technology maturity metrics, transferred successful projects into p	ies include, but are not limited to, reduced ive power systems; eco-friendly sustainable e gies that reduced the load of the operator. Init mobility solutions for improved endurance and ectrum to meet operational requirements. Bas rograms of record.	nergy iated ed					
FY 2014 Plans: Continue to develop and insert technology into existing programs. Technologie profiles; improved weapons; lightweight armor and materials; alternative power devices; long duration, reduced size, high output power supplies; and technologies development of technologies supporting undersea mobility; develop ground mo survivability. Evaluate and develop sensors across the electromagnetic spectru agreed technology maturity metrics, transfer successful projects into programs various venues to facilitate technology insertion.	es include, but are not limited to, reduced signal systems; eco-friendly sustainable energy gies that reduce the load of the operator. Initia bility solutions for improved endurance and um to meet operational requirements. Based of record, and conduct field experimentations	ature ate upon at					
FY 2015 Plans: Continues to develop and insert technology into existing programs. Technologi profiles; improved weapons, communications, command, and control systems, lightweight armor and materials; alternative power systems; eco-friendly sustained.	ies include, but are not limited to reduced sign sensors, and situational awareness tools; nable energy devices; long duration, reduced	ature					

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Ope		Date: March 2014				
Appropriation/Budget ActivityR0400 / 3P7	R-1 Program Element (Number/Name) PE 1160402BB / SOF Advanced Technology Development	Project (N S200 / Adv	velopment			
t R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command priation/Budget Activity R-1 Program Element (Number/Name) 3 PE 1160402BB / SOF Advanced Technology Development Technology Development omplishments/Planned Programs (\$ in Millions) Technology Development igh output power supplies; and technologies that reduce the load of the operator. Continues development of technologies focused upon agreed technology maturity metrics, transfer successful projects into programs of induct field experiments. Based upon agreed technology maturity metrics, transfer successful projects into programs of induct field experiments. Technologies (TTL) Sub-Project 13 Accomplishments: c objectives, priorities, technical approaches, and potential operational applications are classified. Exploited and in y-proven and emerging technologies for TTL and TTL-enabling systems. Continued projects toward maturity that are uSSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Basement (QL-CBA). 14 Plans: c objectives, priorities, technical approaches, and potential operational applications are classified. Exploit and integry-proven and emerging technologies for TTL and TTL-enabling systems. Continue projects toward maturity that are USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL QL-CBA. 15 Plans: c objectives, priorities, technical approaches, and potential operational applications are classified. Exploits and integry-proven and emerging technologies for TTL and TTL-enabling systems. Continues projects toward maturity that are USSOCOM/DoD		FY	2013	FY 2014	FY 2015	
size, high output power supplies; and technologies that reduce the load of the operational requirements. Based upon agreed technology maturity metrics, trans and conduct field experimentations at various venues to facilitate technology inset technologies focused on providing the dismounted special operator leap ahead carbon begin initial effort for field prototype system incorporating technologies likely to transmitted to the dismounted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin initial effort for field prototype system incorporating technologies likely to transmitted special operator leap and carbon begin be	erator. Continues development of technolog ss the electromagnetic spectrum to meet sfer successful projects into programs of reco ertion. Continues the integration of critical apabilities via innovative collaborative proce ansition to fielded systems.	ies ord, sses.				
Title: Tagging, Tracking, and Locating Technologies (TTL) Sub-Project			15.929	12.721	13.852	
FY 2013 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational apprecently-proven and emerging technologies for TTL and TTL-enabling systems. Ot to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved Assessment (QL-CBA).	olications are classified. Exploited and integ Continued projects toward maturity that are li d annual TTL Quick-Look Capabilities-Based	rated nked I				
FY 2014 Plans: Specific objectives, priorities, technical approaches, and potential operational apprecently-proven and emerging technologies for TTL and TTL-enabling systems. Ot to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved	olications are classified. Exploit and integrat Continue projects toward maturity that are lin d annual TTL QL-CBA.	e ked				
FY 2015 Plans: Specific objectives, priorities, technical approaches, and potential operational apprecently-proven and emerging technologies for TTL and TTL-enabling systems. Ot to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved	olications are classified. Exploits and integra Continues projects toward maturity that are li d annual TTL QL-CBA.	ntes nked				
Title: National to Theater Transition			0.970	1.988	-	
FY 2013 Accomplishments: Conducted additional testing and evaluation required on various equipment items	being transitioned to the SOF Theater Forc	es.				
FY 2014 Plans: Conduct additional testing and evaluation required on various equipment items be Starting in FY15 this program has moved to the engineering analysis RDT&E pro	eing transitioned to the SOF Theater Forces ject.					
Title: Classified Sub-Project			1.828	2.043	5.645	
FY 2013 Accomplishments: Details provided under separate cover.						
FY 2014 Plans:						

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

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special C	Operations Command		Date: N	larch 2014					
Appropriation/Budget Activity 0400 / 3	Appropriation/Budget Activity R-1 Program Element (Number/Name) Prediction 0400 / 3 PE 1160402BB / SOF Advanced S2 Technology Development S2								
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2013	FY 2014	FY 2015				
Details provided under separate cover.									
<i>FY 2015 Plans:</i> Details provided under separate cover.									
<i>Title:</i> Special Communications Field Segment - Enterprise (SPCOM)			4.531	-	-				
FY 2013 Accomplishments: Starting in FY 2014 SPCOM will be executed in Program Element 1160431BB segment devices for a special communications enterprise, as well as the developrovide near-term impact to operators.	. Began development of transport and field lopment of means and methods (tradecraft) to								
Title: Signature Management Technology Demonstrator			-	10.453	-				
<i>FY 2014 Plans:</i> Details provided under separate cover.									
	Accomplishments/Planned Programs Sub	totals	39.469	39.576	39.515				
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A									

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 U	Inited States	s Special O	Operations Command						Date: March 2014		
Appropriation/Budget Activity 0400 / 3					R-1 Progra PE 116040 Technology	a m Elemen 2BB / SOF / Developm	t (Number /I Advanced ent	Name)	Project (Number/Name) SF101 / Engineering Analysis				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
SF101: Engineering Analysis	-	-	0.847	12.978	-	12.978	7.511	7.688	13.563	13.819	Continuing	Continuing	

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

A. Mission Description and Budget Item Justification

This project provides a rapid response capability to support SOF platforms, Unmanned Aerial Vehicle (UAV) payload sensors and soldier systems. The purpose is to correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analysis of alternatives, pre-developmental risk reduction studies, and engineering analyses. This project provides the engineering required to improve the design and performance integrity of the SOF platforms, UAV payload sensors and soldier support systems, sub-systems, equipment, and embedded computer software as they relate to the maintenance, overhaul, repair, quality assurance, modifications, materiel improvements, and service life extensions. This project also conducts risk reduction studies, analyses, and demonstrations to support emerging, time critical weapons and sensor enhancements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Engineering Analysis	-	0.847	12.978
FY 2014 Plans: Continue to perform engineering studies, demonstrations, and analyses for SOF platforms, UAV payload sensors and soldier system unique equipment and missions.			
FY 2015 Plans: Continues to perform engineering studies, demonstrations, and analyses for SOF platforms, UAV payload sensors and soldier system unique equipment and missions.			
Accomplishments/Planned Programs Subtotals	-	0.847	12.978
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command											Date: March 2014		
Appropriation/Budget Activity R-1 Program Element (Null 0400 / 3 PE 1160402BB / SOF Adva Technology Development Technology Development						t (Number/l Advanced ent	ber/Name)Project (Number/Name)cedS225 I Information and Broadcast SystemsAdv Tech				Systems		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
S225: Information and Broadcast Systems Adv Tech	-	-	4.883	5.129	-	5.129	5.184	5.295	5.406	5.503	Continuing	Continuing	

[#] The FY 2015 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. 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 tool sets 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 increases the efficiency and shortens 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 Advance Technology Demonstrations and Joint Capability Technology Demonstrations 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 and frequency modulation radio transmitters and antenna; television transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies Capable of long-loiter MISO broadcast and delivery in denied and permissive environment; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: MISO Modernization	-	4.883	5.129
<i>FY 2014 Plans:</i> Continue to develop and insert technology into existing programs.			
FY 2015 Plans:			

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

Exhibit R-2A, RDT&E Project Justification: PB 2015 United State	Date: March 2014				
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 1160402BB / SOF Advanced Technology Development	Project (Number/I S225 / Information Adv Tech	Name) and Broadca	st Systems	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Continues to develop and insert technology into existing programs.					
	Accomplishments/Planned Programs Su	btotals -	4.883	5.129	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A					

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Exhibit R-2, RDT&E Budget Item	tates Speci	cial Operations Command					Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)				BA 3:	R-1 Program Element (Number/Name) PE 1160422BB <i>I Aviation Engineering Analysis</i>							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	9.018	0.635	-	-	-	-	-	-	-	-	Continuing	Continuing
SF101: Aviation Engineering Analysis	9.018	0.635	-	-	-	-	-	-	-	-	Continuing	Continuing

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

Note

Beginning in FY2014, this Program Element has been consolidated into SOCOM Program Element 1160402BB, Advanced Technology Development.

A. Mission Description and Budget Item Justification

This program element provides rapid response capability for the investigation, evaluation, and demonstration of 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: 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.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	0.861	-	-	-	-
Current President's Budget	0.635	-	-	-	-
Total Adjustments	-0.226	-	-	-	-
 Congressional General Reductions 	-0.069	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.001	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.131	-			
SBIR/STTR Transfer	-0.025	-			

Change Summary Explanation

Funding:

FY 2013: Net decrease of \$0.226 million is due to sequestration reductions (-\$0.069 million), rescission reductions (-\$0.001 million), a reprogramming to higher command priorities (-\$0.131 million), and a transfer of funds to Small Business Innovative Research (-\$0.025 million).

Schedule: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 1160422BB <i>I Aviation Engineering Analysis</i>				
Technical: None.					

Exhibit R-2A, RDT&E Project J	ustification	: PB 2015 l	Jnited State	es Special C	Operations (Command				Date: Ma	arch 2014		
Appropriation/Budget Activity 0400 / 3						R-1 Program Element (Number/Name)ProjePE 1160422BB / Aviation EngineeringSF10AnalysisSF10				ject (Number/Name) 01 I Aviation Engineering Analysis			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
SF101: Aviation Engineering Analysis	9.018	0.635	-	-	-	-	-	-	-	-	Continuing	Continuing	
[#] The FY 2015 OCO Request w A. Mission Description and Bu This project provides a rapid res	vill be submit	ted at a late	er date. <u>I</u>	rod wing air	coraft and ur		roraft system	na Tha nu	rnasa is ta	corroct ove	tom doficion		
improve asset life, and enhance engineering analyses. This proje equipment, and embedded com life extensions. This project also	mission cap ect provides puter softwa conducts ri	ability throu the enginee re as they r sk reduction	agh the mea ering require elate to the n studies, a	ans of feasil ed to improv maintenand nalyses, an	bility studies ve the desig ce, overhau d demonstr	analysis of n and perfo l, repair, qu ations to su	of alternative ormance inte ality assura opport emerg	es, pre-deve egrity of the nce, modifi ging, time c	aircraft sup cations, ma ritical weap	risk reduct port syste teriel impro ons and se	ion studies, a ms, sub-syste ovements, an ensor enhanc	nd ems, d service ements.	
B. Accomplishments/Planned	Programs (S	in Million	<u>s)</u>						F۱	(2013	FY 2014	FY 2015	
Title: Aviation Engineering Anal	ysis									0.635	-	-	
FY 2013 Accomplishments: Performed engineering studies a	and analyses	for fixed w	ing aviation	SOF-uniqu	ie equipmer	nt and missi	ons.						
					Accomplis	shments/P	lanned Pro	grams Sub	ototals	0.635	-	-	
<u>C. Other Program Funding Sur</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> N/A <u>E. Performance Metrics</u> N/A	<u>nmary (\$ in</u>	<u>Millions)</u>											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command										Date: March 2014		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)					R-1 Program Element (Number/Name) PE 1160472BB / SOF Information and Broadcast Systems Advanced Technology						/	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	18.893	4.442	-	-	-	-	-	-	-	-	-	23.335
S225: SOF Information and Broadcast Systems Adv Tech	18.893	4.442	-	-	-	-	-	-	-	-	-	23.335

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

Note

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) F	Y 2013	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	4.959	-	-	-	-
Current President's Budget	4.442	-	-	-	-
Total Adjustments	-0.517	-	-	-	-
 Congressional General Reductions 	-0.358	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.007	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.152	-			
Change Summary Explanation					
Funding:					
PE 1160472BB: SOF Information and Broadcast Systems Advanced					
Tec	UNC	CLASSIFIED			Volumo 5

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spec	ial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Nar PE 1160472BB / SOF Information an	ne) d Broadcast Systems Advanced Technology
FY 2013: Decrease of \$0.517 million is due to sequestration reductions funds to Small Business Innovative Research (-\$0.152 million).	s (-\$0.358 million), a congressional res	cission reduction (-\$0.007 million), and a transfer of
Sequestration Impacts: The sequestration decrease required project re	e-scope and negotiation.	
FY 2014: None.		
Schedule: None.		
Technical: None.		

xhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014												
Appropriation/Budget ActivityR-1 Program Element (Number/Name)Program Element (Number/Name)0400 / 3PE 1160472BB / SOF Information andS22Broadcast Systems Advanced TechnologySystems Advanced TechnologySystems						Project (N S225 / SO Systems A	oject (Number/Name) 25 I SOF Information and Broadcast stems Adv Tech					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S225: SOF Information and Broadcast Systems Adv Tech	18.893	4.442	-	-	-	-	-	-	-	-	-	23.335

[#] The FY 2015 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 Special Operations Forces (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 Advanced Technology Demonstrations (ATDs) and Joint Capability Technology Demonstrations (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 and frequency modulation radio transmitters and antenna; television 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; technologies capable of unmanned, long-loiter MISO broadcast and delivery in denied and permissive environments; and technologies that automate in a collaborative environment accomplishing the seven phase MISO process (Planning, Targeting Audience Analysis, Series Development, Product Development and Design, Approval, Production/Distribution/Dissemination, and Measures of Effectiveness) through integrated capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: MISO Modernization	4.442	-	-
FY 2013 Accomplishments:			

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

United States Special Operations Command

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command										Date: March 2014			
Appropriation/Budget Activity R-1 Program Element (Number/Name) Pr 0400 / 3 PE 1160472BB / SOF Information and S2 Broadcast Systems Advanced Technology Systems Advanced Technology Systems Advanced Technology							Proje S225 Syste	Project (Number/Name) S225 I SOF Information and Broadcast Systems Adv Tech					
B. Accomplishments/Planned Pro	ograms (\$ in	Millions)							FY 2013	FY 2014	FY 2015		
Continued to transition previously d	eveloped tech	nologies to	programs of	record.									
				Accor	nplishment	s/Planned P	rograms Su	btotals	4.442	-	-		
C. Other Program Funding Summ Line Item • PROC1: Military Information Support Operations Remarks	hary (\$ in Milli FY 2013 25.188	i <u>ons)</u> <u>FY 2014</u> -	<u>FY 2015</u> <u>Base</u> -	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	FY 20	1 <u>8 FY 201</u> 	<u>Cost To</u> 9 <u>Complete</u> -	Total Cost 25.188		
D. Acquisition Strategy													
E. Performance Metrics N/A													
PE 1160472BB: SOF Information ar Tec	nd Broadcast S	Systems Adv	vanced	UNCLAS	SIFIED					Ve	olume 5 - 24		

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0304210BB / Special Applications for Contingencies								
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
Total Program Element	199.935	15.172	15.150	19.294	-	19.294	19.601	20.207	20.879	20.850	Continuing	Continuing	
9999: Special Applications for Contingencies	199.935	15.172	15.150	19.294	-	19.294	19.601	20.207	20.879	20.850	Continuing	Continuing	

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

A. Mission Description and Budget Item Justification

Beginning in FY2015, this program element is part of the Military Intelligence Program. This program element develops and deploys special capabilities to perform intelligence, surveillance, and reconnaissance for deployed Special Operations Forces (SOF) using non-traditional means. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. Special Applications for Contingencies (SAFC) applies focused Research & Development (R&D) for relatively low cost solutions to provide remotely controlled system emplacement and data exfiltration from denied areas. This program also specifically addresses short lead-time contingency planning requirements where focused R&D will allow for test and evaluation of leading edge solutions to an emergent problem sets.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	17.058	17.352	17.645	-	17.645
Current President's Budget	15.172	15.150	19.294	-	19.294
Total Adjustments	-1.886	-2.202	1.649	-	1.649
 Congressional General Reductions 	-1.343	-			
 Congressional Directed Reductions 	-	-1.700			
 Congressional Rescissions 	-0.023	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.520	-0.502			
 Other Adjustments 	-	-	1.649	-	1.649

Change Summary Explanation

Funding:

FY 2013: Decrease of \$1.886 million is due to sequestration reductions (-\$1.343 million), congressional rescissions (-\$0.023 million), and transfer of funds to Small Business Innovative Research (-\$0.520).

Sequestration Impacts: Re-prioritized efforts.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spe	cial Operations Command	Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	se-Wide / BA 7: R-1 Program Element (Number/Name) PE 0304210BB / Special Applications for Contingencies						
FY 2014: Decrease of \$2.202 million is due to a congressional reduct Business Technology Transfer program (-\$0.502 million).	tion of -\$1.700 million and a transfer of funds to Small Busir	ness Innovative Research/Small					
FY 2015: Increase of \$1.649 million is to expedite the development of	f advanced sensors, payloads and ancillary equipment						
Schedule: None.							
Technical: None.							

Exhibit R-2A, RDT&E Project J	ustification	PB 2015 L	Jnited State	s Special C	Dperations C	Command	1			Date: Mar	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progr PE 03042 ² Contingen	am Elemen 10BB / Spec cies	t (Number/ cial Applicat	Name) ions for	Project (N 9999 / Spe Contingen	umber/Nar ecial Applica cies	ne) ations for	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9999: Special Applications for Contingencies	199.935	15.172	15.150	19.294	-	19.294	19.601	20.207	20.879	20.850	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Bud This project develops and deploy using non-traditional means. It p applies focused Research and D program also specifically addres an emergent problem sets.	dget Item Ju ys special ca provides a m pevelopment ses short lea	ustification apabilities to echanism f (R&D) for r ad-time con	perform in or SOF use elatively lov tingency pla	telligence, s r combat ev v cost solut anning requ	surveillance valuation of tions to prov irements wl	, and recon emerging s vide remotel here focuse	naissance (ensor techn y controlled d R&D will a	ISR) for dep ologies. Sp system emp allow for test	loyed Spe ecial Appli placement and evalu	cial Operati cations for (and data in ation of lea	ons Forces Contingenci filtration. Tl ding edge s	(SOF) es (SAFC) าis olutions to
B. Accomplishments/Planned I	Programs (\$	in Million	<u>s)</u>						FY	′ 2013 🛛 F	Y 2014	FY 2015
Title: Special Applications for Co	ontingencies	(SAFC)								15.172	15.150	19.294
FY 2013 Accomplishments: Continued evaluation unique sen payload to fill critical capability ga	isor technolo aps.	ogies, persis	stent stare a	and quick re	eaction syste	ems. Devel	oped a deliv	verable STU	AS			
FY 2014 Plans: Continue development and comb for global contingencies including and quick reaction systems.	oat evaluatio g short notice	n of selecte e requireme	d sensor de nts. Contin	elivery platfo ue to evalu	orms and m late unique	ounted or d sensor tech	eliverable IS nologies, pe	SR capabiliti ersistent sta	es re			
FY 2015 Plans: Continues development and com for global contingencies including and quick reaction systems.	bat evaluations short notice	on of select e requireme	ed sensor c ents. Contin	lelivery plat lues to eval	tforms and r luate unique	mounted or e sensor tec	deliverable hnologies, p	ISR capabili persistent sta	ties are			
					Accomplis	shments/PI	anned Prog	grams Subt	otals	15.172	15.150	19.294
								<u> </u>	I	J		

Exhibit R-2A, RDT&E Project Justifi	cation: PB	2015 United	States Spec	cial Operation	ons Comman	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 P PE 03 <i>Conti</i>	rogram Elen 304210BB / S ngencies	nent (Numb Special Applie	er/Name) cations for	Project (N 9999 / Spe Contingen	umber/Na ecial Applic cies	me) ations for	
C. Other Program Funding Summar	y (\$ in Millio	ons <u>)</u>									
			<u>FY 2015</u>	<u>FY 2015</u>	FY 2015					Cost To	
Line Item	FY 2013	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	FY 2017	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	Total Cost
• PROC1: Small Tactical Unmanned Aerial Systems	-	8.166	1.500	-	1.500	1.527	1.554	1.582	1.611	Continuing	Continuing

Remarks

D. Acquisition Strategy

SAFC 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.

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 U	nite	d St	ates	Spe	ecia	Ор	erati	ons	Cor	nma	nd											Date	: Ma	arch	20	14			
Appropriation/Budget Activity 0400 / 7								R-1 PE (Con	Pro 030 oting	o grai 4210 genci	n El)BB / es	eme ' Spe	ent (ecia	Nun I Apj	n ber olica	/Nai tion:	me) s foi		Pro 999 <i>Co</i>	o ject 99 / S nting	Spec Spec	imb cial A ies	ər/Na \ppli	ame icati	e) ons	for			
		FY	2013	3		FY	2014	4		FY	2015			FY 2	2016			FY	2017	7		FY 2	2018			FY 2	019		
	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 2015 United States Special Operations (Command		Da	ate: March	n 2014
ppropriation/Budget ActivityR-1 Pr400 / 7PE 030ContinContin	ogram Element (Numbe 04210BB / Special Applica gencies	r/Name) ations for	Project (Num 9999 / Specia Contingencies	nber/Name al Applicati es	e) ons for
Schedule	Details				
	St	art		F	
				En	d
Events	Quarter	Year	Qua	arter	d Year
Events Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development	Quarter 1	Year 2013	Qua	arter 4	d Year 2019
Events Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development ISR Technology Integration & Testing	Quarter 1 1	Year 2013 2013	Qua	arter 4 4	d Year 2019 2019
Events Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development ISR Technology Integration & Testing ISR Prototype Demonstrations	Quarter 1 1 1 1 1	Year 2013 2013 2013		arter 4 4 4	d Year 2019 2019 2019

Exhibit R-2, RDT&E Budget Item	n Justificat	i on: PB 201	15 United St	ates Specia	al Operatior	ns Comman	d			Date: Marc	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	est & Evalua It	ation, Defen	se-Wide I B	A 7:	R-1 Progra PE 030520	a m Elemen 98BB / Distri	t (Number/ ibuted Com	Name) mon Ground	d/Surface S	Systems		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	13.969	7.083	5.195	5.286	-	5.286	5.340	5.449	5.564	6.413	Continuing	Continuing
S400A: Distributed Common Ground/Surface Systems	13.969	7.083	5.195	5.286	-	5.286	5.340	5.449	5.564	6.413	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that 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-theshelf hardware and software and will leverage from existing technology to the greatest degree possible.

. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 201	<u>5 Total</u>
Previous President's Budget	7.114	5.195	5.286	-		5.286
Current President's Budget	7.083	5.195	5.286	-		5.286
Total Adjustments	-0.031	-	-	-		-
 Congressional General Reductions 	-0.621	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-0.010	-				
Congressional Adds	0.600	-				
 Congressional Directed Transfers 	-	-				
Reprogrammings	-	-				
SBIR/STTR Transfer	-	-				
Congressional Add Details (\$ in Millions, and Inclue	les General Redu	<u>ictions)</u>			FY 2013	FY 2014
Project: S400A: Distributed Common Ground/Surface	Systems					
Congressional Add: DCGS-SOF High Definition-Fu	ll Motion Video Qເ	ality of Service	(HD-FMV QoS)		0.600	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	ecial Operations Command	Date: March 2014	4
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0305208BB <i>I Distributed Common Ground/Surface S</i>	ystems	
Congressional Add Details (\$ in Millions, and Includes General R	Reductions)	FY 2013	FY 2014
	Congressional Add Subtotals for Project: S4	0.600 AOC	0 -
	Congressional Add Totals for all Proje	ects 0.600	0 -
Change Summary Explanation Funding:			
FY 2013: Net decrease of \$0.031 million is due to sequestration red (\$0.600 million).	uctions (-\$0.621 million), congressional rescissions (-\$0.010	million), and cong	ressional add
Sequestration Impacts: Delayed integration and test of DCGS-SOF r Communications, and Computers, Intelligence, Surveillance and Rec Reconnaissance (ISR) orbits provided by SOF and Services and 24 SOF enterprise data stores by 6 months.	new tools, data sources/stores and services for backend Com connaissance (C4ISR) PED framework used to support 38.8 PED lines provided by SOF. Specifically, delayed analyst ac	imand, Control, Intelligence, Surve cess to and explo	eillance, and itation of 22
FY 2014: None.			
FY 2015: None.			
Schedule: None.			
Technical: None.			

stification:	PB 2015 U	Inited States	s Special O	perations C	ommand				Date: Marc	h 2014	
				R-1 Progra PE 030520 Ground/Su	a m Elemen 18BB / Distri 1rface Syste	t (Number/ ibuted Com ms	Name) mon	Project (N S400A / Di Surface Sy	u mber/Nan stributed Co stems	1e) ommon Gro	und/
Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
13.969	7.083	5.195	5.286	-	5.286	5.340	5.449	5.564	6.413	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-		
	Prior Years 13.969	Prior Years FY 2013 13.969 7.083 - -	Prior YearsFY 2013FY 201413.9697.0835.195	Prior Years FY 2013 FY 2014 FY 2015 Base 13.969 7.083 5.195 5.286 - - - -	Stification: PB 2015 United States Special Operations C R-1 Progra PE 030520 Ground/Su Years FY 2013 FY 2014 FY 2015 FY 2015 13.969 7.083 5.195 5.286 - - - - - -	Stification: PB 2015 United States Special Operations Command R-1 Program Elemen PE 0305208BB / Distri Ground/Surface Syste Prior FY 2013 FY 2014 FY 2015 FY 2015 FY 2015 13.969 7.083 5.195 5.286 - 5.286 - - - - -	Stification: PB 2015 United States Special Operations Command R-1 Program Element (Number/IPE 0305208BB / Distributed Common/Surface Systems Prior FY 2013 FY 2014 FY 2015 FY 2015 FY 2015 FY 2015 FY 2016 13.969 7.083 5.195 5.286 - 5.286 5.340 - - - - - - -	Stification: PB 2015 United States Special Operations CommandR-1 Program Element (Number/Name) PE 0305208BB / Distributed Common Ground/Surface SystemsPrior YearsFY 2013FY 2014FY 2015FY 2015FY 2015FY 2016FY 201713.9697.0835.1955.286-5.2865.3405.449	Stification: PB 2015 United States Special Operations Command R-1 Program Element (Number/Name) PE 0305208BB / Distributed Common Ground/Surface Systems Project (Nu S400A / Dis Surface Sy Prior Years FY 2013 FY 2014 FY 2015 Base FY 2015 OCO ** FY 2015 Total FY 2016 FY 2017 FY 2018 13.969 7.083 5.195 5.286 - 5.286 5.340 5.449 5.564 - - - - - - - -	Stification: PB 2015 United States Special Operations Command Date: March R-1 Program Element (Number/Name) PE 0305208BB / Distributed Common Ground/Surface Systems Project (Number/Name) S400A / Distributed Co Surface Systems Prior Years FY 2013 FY 2014 FY 2015 Base FY 2015 OCO # FY 2015 Total FY 2016 FY 2017 FY 2018 FY 2019 13.969 7.083 5.195 5.286 - 5.286 5.340 5.449 5.564 6.413 - - - - - - - - -	Stification: PB 2015 United States Special Operations Command Date: March 2014 R-1 Program Element (Number/Name) PE 0305208BB / Distributed Common Ground/Surface Systems Project (Number/Name) S400A / Distributed Common Ground/Surface Systems Prior Years FY 2013 FY 2014 FY 2015 Base FY 2015 OCO # FY 2015 Total FY 2016 FY 2017 FY 2018 FY 2019 Cost To Complete 13.969 7.083 5.195 5.286 - 5.286 5.340 5.449 5.564 6.413 Continuing

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

A. Mission Description and Budget Item Justification

This program element is part of the Military intelligence Program (MIP) that 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-theshelf hardware and software and will leverage from existing technology to the greatest degree possible.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: DCGS	6.483	5.195	5.286
FY 2013 Accomplishments: Integrated emerging technologies and capabilities for all source information fusion and initial development and integration of technology to enable disconnected operations into the DCGS-SOF baseline, commenced test and evaluation of these technologies into this baseline, and conducted DCGS-SOF limited objective events and Enterprise Challenge demonstrations.			
FY 2014 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, continue test and evaluation of these technologies into this baseline, and conduct DCGS-SOF limited objective events and Enterprise Challenge demonstrations.			
FY 2015 Plans: Continues to integrate emerging technologies and capabilities for all source information fusion and continues integration of technology to enable disconnected operations into the DCGS-SOF baseline, continues test and evaluation of these technologies into this baseline, and conducts DCGS-SOF limited objective events and Enterprise Challenge demonstrations.			
Accomplishments/Planned Programs Subtotals	6.483	5.195	5.286

Exhibit R-2A, RDT&E Project Just	ification: PB	2015 United	States Spe	cial Operatio	ns Commar	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pi PE 03 <i>Groun</i>	r ogram Eler 05208BB / L d/Surface S	nent (Numbe Distributed Co ystems	r /Name) mmon	Project (N S400A / D Surface S	lumber/Na Distributed of ystems	ime) Common Gr	ound/
							FY 2013	FY 2014			
Congressional Add: DCGS-SOF H	ligh Definition	-Full Motion	Video Quali	ty of Service	(HD-FMV C	loS)	0.600	-			
FY 2013 Accomplishments: Initiate for an enterprise-level HD-FMV distr be shared with OUSD(I), National G Management offices.	ed HD-FMV C ibution, stora eo-spatial Inte	oS testing a ge, and anal elligence Ag	nd design ir ysis architeo ency (NGA)	nprovement cture for DC0 and counter	recommend GS-SOF. Fii part Service	ation efforts ndings will Program					
				Cong	ressional A	dds Subtota	s 0.600	-			
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
			<u>FY 2015</u>	<u>FY 2015</u>	FY 2015					<u>Cost To</u>	
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 2018	FY 2019	<u>Complete</u>	Total Cost
PROC1: Distributed Common Cround/Surface System	14.704	14.906	17.323	-	17.323	11.611	13.735	10.781	10.097	Continuing	Continuing
Remarks											
 D. Acquisition Strategy DCGS-SOF will partner within Dol access to and sharing of data and s and coalition ISR tactical PED syste for assessment and future deployme (DRWG) chaired by J2. Once appro fast and agile manner based on use projections. If requirement priorities 	D and with ot ervices to me ems. The DC ent into the op oved the requ er requiremen s change base	her governm eet SOF-pect GS-SOF pro perational ba irements are ts and priorit ed on the DF	ent agencie uliar docume gram office iseline. All d e evaluated a ies. All evo RWG, the ET	s to integrate ented require employs an development and schedule lutionary tech	e mature tec ments. The agile develo requiremen ed by engine nology inse n capabilities	hnologies into technology w oment proces ts are prioritiz ering. Using rtions (ETIs) s identified ma	the SOF info vill allow for s s with capab ed through th this methodo n the R-4 sol ay change.	ormation er eamless in ility insertio ne DCGS R logy allows nedule are	nterprise ar tegration w ns into the equiremen capabilitie based on c	nd enable m ith DoD, into developments Working ts to be inse current progr	ore agile eragency, nt baseline Group rted in a ram office

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 U	Jnite	d Sta	ates	Spe	cial	Ope	erati	ions	Con	nma	nd											Da	te: M	arch	1 20 ⁻	14		
Appropriation/Budget Activity 0400 / 7								R-1 PE Gro	Pro 0305 0010/	gra r 5208 /Surl	n El BB / ace	eme Dis Sysi	nt (tribu tem	(Nun uted s	nbe Coi	r/Na mmo	me) on		Pro S4 Su	ojec 00A rface	t (Ni I Di: e Sy	uml strit stei	ber/N buted ms	ame Cor	e) mma	on Gr	oun	d/
		FY 2	2013			FY	201	4		FY	2015			FY 2	201	6		FY	201	7		FY	2018	8		FY 2	019)
Distributed Common Ground/Surface Systems (DGCS) Integration and Technology Insertions	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
DCGS-SOF Developmental Testing																												
SOF PED Enterprise Enhancements																												
DCGS v2.X Operational Test (OT) (User Interface, SOF Data Layer, Data Engine, Brokered Search, Combined Search Widget, Data Soure Integration)																												
DCGS v3.X OT (Brokered Search into IC Community, Scheduled Combined Search Widget, Data Source Integration)																												
DCGS v4.X OT (Redesigned User Interface, DIB 4.X, Distributed Data Framework, Enterprise Messaging, SIGINT Data Integration, Combat Assessment Disconnect/ Mobile Capability)																												
DCGS v5.X OT (Extend enterprise capability to the SSEP, Production Build For Disconnect/ Mobile, Additional Data Sources, Services, Analytical Tools)																												
DCGS High Definition-Full Motion Video Quality of Service Testing (Congressional Add)																												
DCGS Limited Objective Event & Enterprise Challenge - FY 2013																							-					
DCGS Limited Objective Event & Enterprise Challenge - FY 2014																												
DCGS Limited Objective Event & Enterprise Challenge - FY 2015																												

Exhibit R-4, RDT&E Schedule Profile: PB 2015 U	Jnit	ed S	State	es S	Spe	cial	Ope	eratio	ons	Con	nma	nd												Date	e: Ma	arch	n 20	14		
Appropriation/Budget Activity 0400 / 7									R-1 PE (Grou	Pro 030: <i>und</i> /	gra 5208 /Sun	m E l 3BB face	l eme I Dis Sys	ent strik ster	t (Nu i butec ms	mbe d Co	er/Na mmo	ame on)	Pr S4 Su	ojeo 00A Irfac	ct (N \ / D ce S	lui Dist Sysi	mbe tribu tem	er/N ited s	ame Cor	€) mmo	on Gi	rour	nd/
		F١	20	13			FY	2014	ļ		FY :	201	5		FY	201	6		FY	201	7		F	FY 2	2018			FY 2	2019)
	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
DCGS Limited Objective Event & Enterprise Challenge - FY 2016				.											·															
DCGS Limited Objective Events& Enterprise Challenge - FY 2017																														
DCGS Limited Objective Events & Enterprise Challenge - FY 2018																														
DCGS Limited Objective Events & Enterprise Challenge - FY 2019																														

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Oper		Date: March 2014			
Appropriation/Budget Activity 0400 / 7	opriation/Budget Activity R-1 Program Element (Number/Name) I 17 PE 0305208BB / Distributed Common South and the second se				
	•				

Schedule Details

	Sta	art	Er	nd
Events	Quarter	Year	Quarter	Year
Distributed Common Ground/Surface Systems (DGCS) Integration and Technology Insertions	1	2013	4	2019
DCGS-SOF Developmental Testing	1	2013	4	2019
SOF PED Enterprise Enhancements	1	2013	4	2019
DCGS v2.X Operational Test (OT) (User Interface, SOF Data Layer, Data Engine, Brokered Search, Combined Search Widget, Data Soure Integration)	1	2013	4	2014
DCGS v3.X OT (Brokered Search into IC Community, Scheduled Combined Search Widget, Data Source Integration)	1	2013	4	2014
DCGS v4.X OT (Redesigned User Interface, DIB 4.X, Distributed Data Framework, Enterprise Messaging, SIGINT Data Integration, Combat Assessment Disconnect/Mobile Capability)	4	2014	4	2016
DCGS v5.X OT (Extend enterprise capability to the SSEP, Production Build For Disconnect/Mobile, Additional Data Sources, Services, Analytical Tools)	4	2016	4	2018
DCGS High Definition-Full Motion Video Quality of Service Testing (Congressional Add)	3	2013	4	2013
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
DCGS Limited Objective Events & Enterprise Challenge - FY 2019	1	2019	4	2019

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command									Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development				R-1 Program Element (Number/Name) PE 0305219BB / MQ-1 Unmanned Aerial Vehicle (UAV)								
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	31.964	1.123	0.641	-	-	-	-	-	-	-	-	33.728
S400B: <i>MQ-1 Unmanned Aerial</i> <i>Vehicle (UAV)</i>	31.964	1.123	0.641	-	-	-	-	-	-	-	-	33.728

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

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program. This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits, mission payloads, weaponization, and modifications on MQ-1 Unmanned Aerial Vehicles (UAVs), ground control stations, and training systems 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, Target (ISR&T) Acquisition, and strike.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	1.355	0.641	2.781	-	2.781
Current President's Budget	1.123	0.641	-	-	-
Total Adjustments	-0.232	-	-2.781	-	-2.781
 Congressional General Reductions 	-0.230	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.001	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.001	-			
SBIR/STTR Transfer	-	-			
 Other Adjustments 	-	-	-2.781	-	-2.781

Change Summary Explanation

Funding:

FY2013: Decrease of \$0.232 million is due to sequestration reductions (-\$0.230 million), congressional rescission (\$-0.001 million), and a reprogramming to higher command priorities (-\$0.001 million).

FY2014: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0305219BB / MQ-1 Unmanned Aerial Vehicle (UAV)
FY2015: Decrease of -\$2.781 million is due to a realignment to high	er command priorities.	
Schedule: None.		
Technical: None.		
PE 0305219BB: MQ-1 Unmanned Aerial Vehicle (UAV)		Volume 5 - 40
United States Special Operations Command	Page 2 of 6 R-1 Line #226	

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	Jnited State	s Special C	Operations (Command				Date: Mai	rch 2014	
Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project400 / 7PE 0305219BB / MQ-1 Unmanned AerialS400EVehicle (UAV)Vehicle (UAV)(UAV)				Project (I S400B / <i>N</i> <i>(UAV)</i>	(Number/Name) MQ-1 Unmanned Aerial Vehicle							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S400B: MQ-1 Unmanned Aerial Vehicle (UAV)	31.964	1.123	0.641	-	-	-	-	-	-	-	-	33.728
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification This program element is part of the military intelligence program. This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits, mission payloads, weaponization, and modifications on MQ-1 UAVs, ground control stations, and training systems. As the supported combatant command, USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing global 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 project addresses the primary areas of ISR&T acquisition, and strike												
B. Accomplishments/Planned P	Programs (S	in Million	<u>s)</u>						F	Y 2013	FY 2014	FY 2015
Title: MQ-1 Predator A UAV										1.123	0.641	-
FY 2013 Accomplishments: Developed, tested, and integrated SOF - unique mission kits, mission payloads, and modifications to include but not limited to High Definition Full Motion Video upgrades on MQ-1 UAVs and ground control stations. FY 2014 Plans: Develop, test, and integrate SOF - unique mission kits, mission payloads, weapons, and modifications on MQ-1 UAVs and ground control stations.												
					Accompli	shments/P	anned Pro	grams Sub	totals	1.123	0.641	-
C. Other Program Funding Sum Line Item • PROC/1108MQ1: MQ-1 Unmanned Aerial Vehicle Remarks	nmary (\$ in <u>FY 20</u> 24.6	<u>Millions)</u> 013 FY 2 058 2.	FY 014 1 122	2015 FY 3ase -	<u>2015</u> F OCO -	<u>Y 2015</u> <u>Total</u> -	<u>Y 2016</u>	F <u>Y 2017</u> -	<u>FY 2018</u> -	<u>FY 2019</u> -	Cost To Complete -	<u>Total Cost</u> 26.780
L												

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special O	Date: March 2014				
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	t (Number/Name)		
0400 / 7	PE 0305219BB / MQ-1 Unmanned Aerial	S400B / M	Q-1 Unmanned Aerial Vehicle		
	venicie (UAV)	(UAV)			

D. Acquisition Strategy

MQ-1 UAV is an evolutionary acquisition program that provides improvements to SOF MQ-1 UAVs, ground control stations, and training systems including mission kits, mission payloads, aircraft weapons integration and modifications to increase the ISR&T acquisition capabilities of SOF.

E. Performance Metrics

N/A
Exhibit R-4, RDT&E Schedule Profile: PB 2015 U	Inite	ed S	tates	s Spe	ecial	Op	eratio	ons (Com	nmar	nd										I	Date	e: M	arch	20	14		
Appropriation/Budget Activity 0400 / 7								R-1 PE 0 Vehi	Pro 305 c/e	grar 5219 <i>(UA</i>)	n El BB / /)	eme ' MG	ent 2-1	(Nun Unm	nber/ anne	Nan d Ae	n e) erial		Pro S40 (UA	ject 0B / V)	(Nu <i>M</i> C	imb ⊋-1 (er/N Unm	ame anne	•) ed A	<i>Aeria</i>	l Vei	hicle
		FY	201	3		FY	2014			FY 2	2015			FY 2	2016		I	FY 2	017			FY 2	2018	3		FY 2	2019)
	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 UAVs and Ground Control Stations			÷																	·								
Development/Integration																												
Test & Evaluation/User Assessment																												
												-																

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Sp	ecial Operations Command		D	Date: March 2	:014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (N PE 0305219BB / MQ-1 Un Vehicle (UAV)	mber/Name) nanned Aerial	Project (Nur S400B / MQ- (UAV)	mber/Name))-1 Unmannec	l Aerial Vehicle
	Schedule Details				
	Schedule Details				
		Start		End]
Events by Sub Project	Quarte	Start Yea	r Qu	End larter	Year
Events by Sub Project MQ-1 UAVs and Ground Control Stations	Quarte	Start Yea	r Qu	End ıarter	Year
Events by Sub Project MQ-1 UAVs and Ground Control Stations Development/Integration	Quarte	Start Yea 201	r Qu 3	End Jarter 4	Year 2014

Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 20 ⁻	15 United S	tates Speci	al Operation	ns Commar	nd			Date: Mar	rch 2014	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	est & Evalua nt	ation, Defen	se-Wide I E	3A 7:	R-1 Progra PE 030523	am Elemer 1BB / <i>MQ-</i>	i t (Number / 8 UAV	Name)				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	4.599	-	-	-	-	-	-	-	-	Continuing	Continuing
S854: MQ-8 UAV	0.000	4.599	-	-	-	-	-	-	-	-	Continuing	Continuing
 * The FY 2015 OCO Request wil A. Mission Description and Bud 	l be submiti get Item Ju	ted at a late	r date.									
This program element is part of th	ne Military I	ntelligence	Program. [Details are p	provided und	ler separat	e cover.					
B. Program Change Summary (S	in Million	<u>s)</u>		<u>FY 2013</u>	<u>FY 201</u>	<u>4</u> I	FY 2015 Ba	<u>se</u>	<u>FY 2015 O</u>	<u>CO</u>	<u>FY 2015 To</u>	otal
Previous President's Budg	et			5.000		•		-		-		-
Current President's Budge	t			4.599				-		-		-
I otal Adjustments				-0.401				-		-		-
Congressional G Congressional D	eneral Red	uctions		-0.401		•						
Congressional R		luctions		-								
Congressional A	dds			-								
Congressional D	irected Tra	nsfers		-								
Reprogrammings	5			-								
• SBIR/STTR Tran	sfer			-								
Change Summary Expla Funding:	nation											
FY2013: Decrease of -\$0.	401 million	is due to se	equestratio	n reductions	S.							
FY2014: None.												
FY2015: None.												
Schedule: None.												
Technical: None												

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Exhibit R-2, RDT&E Budget Item	n Justificat	ion: PB 20′	15 United S	tates Speci	al Operatior	ns Comman	d			Date: Marc	h 2014	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	est & Evalua nt	ntion, Defen	se-Wide I B	A 7:	R-1 Progra PE 110521	am Elemen 9BB / MQ-9	t (Number/ 9 Unmanned	Name) d Aerial Vel	nicle			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	11.610	2.610	13.272	9.702	-	9.702	19.203	18.989	19.072	15.000	Continuing	Continuing
S851: MQ-9 Unmanned Aerial Vehicle	11.610	2.610	13.272	9.702	-	9.702	19.203	18.989	19.072	15.000	Continuing	Continuing

[#] The FY 2015 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, mission payloads, weapons, and modifications on MQ-9 Unmanned Aerial Vehicles (UAVs), ground control stations, and training systems 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 Target (ISR&T) Acquisition, and strike.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	3.002	1.314	3.062	-	3.062
Current President's Budget	2.610	13.272	9.702	-	9.702
Total Adjustments	-0.392	11.958	6.640	-	6.640
 Congressional General Reductions 	-0.297	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.004	-			
Congressional Adds	-	12.000			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.091	-0.042			
 Increase due to rapid emergent technology capability development 	-	-	6.640	-	6.640

Change Summary Explanation

Funding:

FY2013: Decrease of \$0.392 million is due to sequestration reduction (-\$0.297 million), a decrease due to congressional rescission (-\$0.004 million), and a transfer of funds to Small Business Innovation Research (-0.091 million).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spectra	ecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle	
FY2014: Net increase of \$11.958 million congressional add to develo Business Innovative Research/Small Business Technology Transfer	op rapid emergent technology capability (\$12.000 millic programs (-\$0.042 million).	n) and a transfer of funds to Small
FY2015: Increase of \$6.640 million will develop a rapid emergent tec	chnology capability.	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	ustification	PB 2015 L	Jnited State	s Special C	perations (Command				Date: Mar	ch 2014	
Appropriation/Budget Activity D400 / 7 PE 1105219BB / MQ-9 Unmanned Aeria Vehicle Data								Name) d Aerial	Project (N S851 / MC	lumber/Nai Q-9 Unmanr	ne) ned Aerial V	ehicle
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S851: MQ-9 Unmanned Aerial Vehicle	11.610	2.610	13.272	9.702	-	9.702	19.203	18.989	19.072	2 15.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
The FY 2015 OCO Request with A. Mission Description and Bud This project identifies, develops, Unmanned Aerial Vehicles (UAV USSOCOM requires the capability collection of information and requires acquisition and strike.	Il be submit dget Item Ju integrates, a s), ground c ty to find, fix uire rapid, de	ed at a late istification and tests Sp ontrol static , finish, exp ecisive actic	r date. Decial Operations, and trai poloit, and an on during the	ations Forc ining syster alyze time- e short peri	es (SOF) - ns. As the sensitive hi ods in whic	unique miss supported c gh-value tar they prese	ion kits, mis combatant c gets. These ent themsel	ssion payloa ommand in e targets ca ves. This p	ads, weapo Overseas in often onl roject addr	ns, and moo Contingenc y be identifi esses the p	difications o y Operation ed with patie rimary areas	n MQ-9 s (OCO), ent s of ISR&T
B. Accomplishments/Planned F	Programs (\$	in Million	<u>s)</u>						F	(2013 I	TY 2014	FY 2015
Title: MQ-9 UAV										2.610	13.272	9.702
FY 2013 Accomplishments: Developed, tested, and integrated limited to Extended Range and ra	d SOF - unio apid emerge	ue mission	kits, missic gy capabiliti	n payloads es on MQ-	s, weapons 9 UAVs and	, and modific d ground cor	cations to in	clude but n s.	ot			
FY 2014 Plans: Develop, test, and integrate SOF control stations.	unique miss	sion kits, mi	ssion paylo	ads, weapo	ons and mo	difications o	n MQ-9 UA	Vs and grou	und			
FY 2015 Plans: Develop, test, and integrate SOF control stations, and training syst	-unique mis ems.	sion kits, m	ission paylo	ads, weapo	ons, and m	odifications	on MQ-9 UA	Vs, ground	1			
					Accompli	shments/Pl	anned Prog	grams Sub	totals	2.610	13.272	9.702
C. Other Program Funding Sun	nmary (\$ in	<u>Millions)</u>				N 0045				· · · ·	0	
l ino Itom	EV 20	12 EV 2	014 FY 2	<u>2015 FY</u> 2250	<u>2015</u> F	<u>Y 2015</u> Total F	V 2016 I	EV 2017	EV 2019	EV 2010	<u>Cost To</u>	Total Cost
• PROC1: MQ-9 Unmanned Aerial Vehicle	35.7	39 12.	893 15	.651	-	15.651	12.825	11.804	12.916	6.400	Continuing	Continuing

Exhibit R-2A, RDT&E Project Ju	istification: PB	2015 United	States Spe	cial Operatio	ons Commar	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pi PE 11 <i>Vehicl</i>	r ogram Ele r 05219BB / <i>N</i> /e	nent (Numb 1Q-9 Unman	er/Name) aned Aerial	Project (I S851 / <i>M</i>	Number/Na Q-9 Unman	i me) ned Aerial V	/ehicle
C. Other Program Funding Sum	mary (\$ in Milli	<u>ons)</u>									
Line Item Remarks	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> Complete	<u>Total Cost</u>

D. Acquisition Strategy

MQ-9 Unmanned Aerial Vehicle is an evolutionary acquisition program that develops, tests, and integrates SOF-unique mission kits, mission payloads, and weapons on MQ-9 UAV, ground control stations, and training systems to increase the ISR&T acquisition capabilities of SOF. Proprietary issues with operations flight program software, sensor operating software, and aircraft modification considerations dictate sole source contracts.

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015	Unite	∋d S'	tates	Spe	cial	Оре	eratic	ns	Con	nma	ind											Dat	e: M	arcl	ר 20 ר	14		
Appropriation/Budget Activity 0400 / 7							F N	R-1 PE [/] /eh	Pro 110: icle	gra 5219	m El e 9BB /	eme ' MG	ent (2-9 ((Nun Unm	n ber / anne	'Nai d A	ne) eria	I	Pro S85	ject 51 / 1	: (N i MQ-	umb -9 U	mber/Name) 9 Unmanned A 			erial	Vehi	icle
		FY	2013	3		FY 2	2014			FY	2015			FY	2016			FY 2	2017	•		FY	2018	3		FY	2019)
	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-9 UAVs and Ground Control Stations																												
Development/Integration/Test																												

chibit R-4A, RDT&E Schedule Details: PB 2015 United States Specia	I Operations Command				Date: March	n 2014
opropriation/Budget Activity 00 / 7	R-1 Program Elemen PE 1105219BB / MQ- Vehicle	t (Number/Na 9 Unmanned /	a me) Aerial	Project (N S851 / MQ	umber/Name -9 Unmanne	e) d Aerial Vehicle
	Schedule Details					
		Start			En	d
Events by Sub Project	Qu	Start	Year	Q	En	d Year
Events by Sub Project MQ-9 UAVs and Ground Control Stations	Qu	Start arter	Year	G	Enguarter	d Year

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20 ⁻	15 United S	tates Speci	al Operatio	ns Comman	d	h 2014				
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmer	est & Evalua nt	ation, Defen	se-Wide I E	BA 7:	R-1 Progr a PE 110523	am Elemen 32BB / <i>R</i> Q-1						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	1.380	-	-	0.259	-	0.259	0.263	0.268	0.272	0.277	Continuing	Continuing
S853: RQ-11 UAV	1.380	-	-	0.259	-	0.259	0.263	0.268	0.272	0.277	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program. This program element is a new start in FY 2015. This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) – unique mission kits, mission payloads, weapons, air vehicle enhancements, and modifications on the SUAS and related ground control stations. USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks and targets. USSOCOM requires the capability to find, fix, and finish time-sensitive high-value fixed and fleeting targets at the unit and team level without placing personnel and units in harm's way. 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 line item addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Targeting (ISR&T) capabilities for SOF.

<u> 3. Program Change Summary (\$ in Millions)</u>	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	0.259	-	0.259
Total Adjustments	-	-	0.259	-	0.259
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-	-			
 Other Adjustments 	-	-	0.259	-	0.259

Change Summary Explanation

Funding:

FY 2013: None.

FY2014: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spec	cial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1105232BB / RQ-11 UAV	
FY2015: Increase of \$0.259 million is to develop, test and integrate S0	DF-unique mission kits, mission pay loads and modification	ons to SUAS.
Technical None.		

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 L	Jnited State	s Special C	Operations C	Command				Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progr PE 110523	am Elemen 32BB / <i>R</i> Q-1	t (Number/ 11 UAV	Name)	Project (S853 / R	Number/Na Q-11 UAV	me)	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S853: RQ-11 UAV	1.380	-	-	0.259	-	0.259	0.263	0.268	0.27	2 0.27	7 Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Bud This program element is a new st kits, mission payloads, weapons, DoD lead for planning, synchroniz and finish time-sensitive high-value be identified with patient collectio the primary areas of Intelligence, B. Accomplishments/Planned P Title: Small Unmanned Aircraft Sy FY 2015 Plans: This is a FY 2015 new start. Deve SUAS and ground control station, communications, specialized tagg	I be submitte get Item Jus art in FY 201 air vehicle er zing, and as o ue fixed and to n of informati Surveillance rograms (\$ i ystems (SUA elop, integrat to include bu jing, tracking,	d at a late stification 5. This hanceme directed, e fleeting tan ion and re , Reconna in Millions S) and Pa e, and tes ut not limit , and locat	er date. program ele ents, and mo executing gle rgets at the quire rapid, hissance, an <u>s)</u> ayloads t SOF-unique ed to; impro- ting, and en	ement ident odifications obal operat unit and te decisive ad d Targeting ue mission oved capab hanced cor	ifies, develo on the SUA tions agains am level wit ction during g (ISR&T) C kits, mission lilities for ge mmunication	ops, integrat AS and relat t terrorist ne hout placing the short pe capabilities f n payloads, o-location, o ns relay.	es, and tesi ed ground o etworks and g personnel eriods in wh for SOF. and modific collection of	ts Special C control station targets. US and units in ich they pre- cations to th push-to-tal	Operations ons. USSC SSOCOM In harm's w esent them F e k,	Forces (SO DCOM has b requires the ray. These ta selves. This Y 2013	F) – unique r been designa capability to argets can of line item ad FY 2014	nission ted as the find, fix, ten only dresses FY 2015 0.259
		·			Accomplis	shments/PI	anned Pro	arams Sub	totals	-	-	0.259
C. Other Program Funding Sum Line Item • PROC/0809RQ11: RQ-11 Unmanned Aerial Vehicle Remarks	<u>mary (\$ in M</u> <u>FY 201</u> 1.89	lillions) 3 FY 2 8 0.	<u>FY 2</u> 014 <u>E</u> 850 6	2015 FY 3ase .397	<u>2015</u> <u>OCO</u>	<u>/ 2015</u> <u>Total</u> <u>F</u> 6.397	Y 2016 I 10.695	FY 2017 9.514	FY 2018 4.540	<u>FY 2019</u> 4.317	<u>Cost To</u> <u>Complete</u> Continuing	Total Cost Continuing
D. Acquisition Strategy												

SUAS is an evolutionary acquisition program that delivers, integrates, and qualifies SOF unique mission kits, mission payloads, weapons, air vehicle enhancements, and ground control station upgrades. Contracting methods depend on the type of development effort. Competitive source selection will be conducted as much as possible. Proprietary considerations may direct some effort to the Original Equipment Manufacturer.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special	Operations Command	Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1105232BB / RQ-11 UAV	Project (Number/Name) S853 / RQ-11 UAV
E. Performance Metrics	· · · ·	
N/A		

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| | R-1 Program Element (Number/Name)Project (Number/Name)PE 1105232BB / RQ-11 UAVS853 / RQ-1 | | | | | | | | |
 | Number/Name)
Q-11 UAV | | | | | | |
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PE 1105232BB / RQ-11 UAV Project
S853 / F FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3<td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3 <t< td=""><td>Some operations command R-1 Program Element (Number/Name) Project (Number/Name) PE 1105232BB / RQ-11 UAV S853 / RQ-11 UAV FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2</td></t<><td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2<td>Some operations command Bute: Match R-1 Program Element (Number/Name) Project (Number/Name) Project (Number/Name) S853 / RQ-11 UAV S853 / RQ-11 UAV FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3</td><td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3
 4 1 2 3 4 1 2<td>Some operations command Pate: Match 2014 R-1 Program Element (Number/Name) Project (Number/Name) S853 / RQ-11 UAV S853 / RQ-11 UAV FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2</td><td>Some operations command Project (Number/Name) Project (Number/Name) Project (Number/Name) PE 1105232BB / RQ-11 UAV S853 / RQ-11 UAV FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4 1</td></td></td></td></td></t<></td></t<></td> | FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 | FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 4 | FY 2013 FY 2014 FY 2015 1 2 3 4 1 3 | FY 2013 FY 2014 FY 2015 FY 2015 FY 2015 1 2 3 4 1 2 3 4 1 2 | FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 | FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 4 | FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 | FY 2013 FY 2014 FY 2015 FY 2016 FY 2016 <t< td=""><td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3 <t< td=""><td>Some of periations command R-1 Program Element (Number/Name)
PE 1105232BB / RQ-11 UAV Project
S853 / F FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3<td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3 <t< td=""><td>Some operations command R-1 Program Element (Number/Name) Project (Number/Name) PE 1105232BB / RQ-11 UAV S853 / RQ-11 UAV FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2</td></t<><td>FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 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 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2
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hibit R-4A, RDT&E Schedule Details: PB 2015 United States Spec	A, RDT&E Schedule Details: PB 2015 United States Special Operations Command on/Budget Activity R-1 Program Element (Number/Name)							
oropriation/Budget Activity 0 / 7	R-1 Program Element (Number) PE 1105232BB / RQ-11 UAV	am Element (Number/Name)Project (32BB / RQ-11 UAVS853 / R						
	Schedule Details							
	Sta	rt	E	nd				
Events by Sub Project	Sta Quarter	rt Year	Quarter	nd Year				
Events by Sub Project RQ-11 UAV	Sta Quarter	rt Year	Quarter	nd Year				

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160279BB <i>I Small Business Innovative Research</i>									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
Total Program Element	151.492	10.995	10.446	-	-	-	-	-	-	-	Continuing	Continuing		
S050: Small Business Innovative Research	151.492	10.995	9.147	-	-	-	-	-	-	-	Continuing	Continuing		
S051: Small Business Technology Transfer	-	-	1.299	-	-	-	-	-	-	-	Continuing	Continuing		

[#] The FY 2015 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 2012. 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. Phase II projects expand the results of, and further pursue, the developments of Phase I. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. USSOCOM participates annually in the DoD Request for Proposal process. USSOCOM then awards its proposed SBIR projects. FY 2014 is the first year USSOCOM is participating in the Small Business Technology Transfer (STTR) program. The STTR goal is to expand public/private sector partnerships between small business and nonprofit U.S. research institutions.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	10.995	10.446	-	-	-
Total Adjustments	10.995	10.446	-	-	-
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	10.995	10.446			
Change Summary Explanation					
Funding:					

hibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014
propriation/Budget Activity)0: Research, Development, Test & Evaluation, Defense-Wide I BA 7: erational Systems Development	R-1 Program Element (Number/Name) PE 1160279BB / Small Business Innovative	Research
FY 2013: Increase of \$10.995 million is due to reprogramming from Research Program.	various program elements for the congressionall	y mandated Small Business Innovative
FY 2014: Increase of \$10.446 million is due to reprogramming from Research (\$9.147 million) and Small Business Technology Transfer	various program elements for the congressional (\$1.299 million) programs.	lly mandated Small Business Innovative
Schedule: None.		
Technical: None		

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command											ch 2014	
Appropriation/Budget Activity 0400 / 7		R-1 Progra PE 116027 <i>Research</i>	am Elemen 79BB / Sma	t (Number/ Il Business	Project (N S050 / Sm	t (Number/Name) Small Business Innovative Research						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S050: Small Business Innovative Research	151.492	10.995	9.147	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The EV 2015 OCO Request will	l ha auhmitt	ad at a lata	r data									

[#] The FY 2015 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 2012. 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. Phase II projects expand the results of, and further pursue, the developments of Phase I. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. USSOCOM participates annually in the DoD Request for Proposal process. USSOCOM then awards its proposed SBIR projects.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Small Business Innovative Research (SBIR)	10.995	9.147	-
FY 2013 Accomplishments: Awarded numerous Phase I and Phase II contracts for SBIR topics: Enhanced Small Arms Ammo, Small Team C3SA, Low Visibility Decoy Flare, Abrasion Laceration and Puncture Protection, Clean Green Chem Bio Def Nano Tech, Ka-Band Spread Spectrum, Innovative NIR/SWIR Sensor Dual Speed Read Out IC (ROIC), Family of Sub-Sonic Ammunition, Portal Computing, Bi- metal Gun Barrel, Prototype for Sampling and Mass Spectrometric Analysis for Forward Operating Base Laboratory, and Tactical Assualt Light Operator Suit Passive Exoskeleton.			
FY 2014 Plans: Award numerous Phase I and Phase II contracts and contract options for SBIR topics: Helicopter Hostile Fire Indicator, Nano Scale Coatings, Over-the-Horizon Underwater Communications, Advanced Medical Microelectronics, Next Generation Portable Power Amplifier, Family of Sub-Sonic Ammunition, 50 Caliber Ammunition, Advanced Transparent Armor, Advanced Opaque Armor, Hydrogen Generation from Water, High Performance Marine Diesel, and Low Acoustic Signature.			
Accomplishments/Planned Programs Subtotals	10.995	9.147	-
C. Other Program Funding Summary (\$ in Millions) N/A			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States	Date: March 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160279BB <i>I Small Business Innovative</i> <i>Research</i>	Project (Number/Name) S050 <i>I Small Business Innovative Research</i>
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
<u>D. Acquisition Strategy</u> N/A		
E. Performance Metrics		
N/A		

Exhibit R-2A, RDT&E Project J	ustification	: PB 2015 l	Jnited State	s Special C	Operations C	Command				Date	: Mar	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progr PE 116027 <i>Research</i>	Project S051 /	ect (Number/Name) 1 / Small Business Technology Transfe						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 20	18 FY 2	2019	Cost To Complete	Total Cost
S051: Small Business Technology Transfer	-	-	1.299	-	-	-	-	-		-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-		-	-		
A. Mission Description and Bud FY 2014 is the first year USSOC partnerships between small busi	in be submit dget Item Ji OM is partic ness and no	ustification cipating in the popprofit U.S.	er date. <u>I</u> ne Small Bu: . research ir	siness Tecl nstitutions.	hnology Tra	insfer (STTF	२) program.	STTR goa	Il is the e	xpand pi	ıblic/p	orivate secto	or
B. Accomplishments/Planned F	Programs (§	in Million	<u>s)</u>							FY 2013	F	Y 2014	FY 2015
Title: Small Business Technolog	y Transfer (STTR)									-	1.299	-
FY 2014 Plans: Award contracts on mulitple effor	ts.												
					Accomplis	shments/Pl	anned Prog	grams Sub	totals		-	1.299	-
<u>C. Other Program Funding Sun</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> N/A <u>E. Performance Metrics</u> N/A	nmary (\$ in	<u>Millions)</u>											

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Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20 ⁻	15 United St	tates Specia	al Operatior	ns Comman	d	Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmer	A 7:	R-1 Progra PE 116040	a m Elemen)3BB <i>I Aviat</i>										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
Total Program Element	363.765	84.254	130.811	164.233	-	164.233	151.349	117.788	59.449	40.785	Continuing	Continuing	
SF100: Aviation Systems Advanced Development	363.765	84.254	86.179	83.699	-	83.699	82.907	87.209	35.683	17.070	Continuing	Continuing	
SF200: CV-22	0.000	-	2.817	0.182	-	0.182	-	-	-	-	-	2.999	
S750: Mission Training and Preparation Systems	0.000	-	4.696	7.333	-	7.333	7.104	6.648	6.789	6.904	Continuing	Continuing	
S875: AC/MC-130J	0.000	-	9.638	5.629	-	5.629	1.889	0.411	0.419	-	Continuing	Continuing	
D615: Rotary Wing Aviation	0.000	-	27.481	67.390	-	67.390	59.449	23.520	16.558	16.811	Continuing	Continuing	

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

Note

Beginning in FY 2014 Aviation Systems Program Element 1160403BB represents the approved project consolidation of 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 Advanced Development:

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; Defensive Countermeasures; Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM); Precision Strike Package (PSP) for AC-130W; 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 Surveillance & Reconnaissance (ISR); data fusion; threat detection and avoidance; navigation, target detection, and identification technologies; weapons integration; digital broadcast capabilities; aerial refueling; and ISR payload technological improvements with size, weight, power and integration onto all SOF ISR platforms.

CV-22 Development:

The CV-22 is a 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. 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

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Speci	ial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160403BB <i>I Aviation Systems</i>	
provide the embarked troop commander access to the CV-22's communication dispenser control head to allow any cockpit crew member to activate defensive adequate quantity of consumable countermeasures for the extended duration of feature to the Digital Map System to allow both the pilot and co-pilot to indepen Block 20: Design, integrate, test, and validate enhancements required to meet testing. This incremental development will provide improved capabilities to incre- surveillance and reconnaissance, weapons, avionics, survivability, maneuvera	h, navigation and mission management system; re- e countermeasures; add a second forward firing c of SOF infiltration, exfiltration, and resupply missi indently access and control the digital map display SOF-unique mission requirements and correct d clude, but not limited to, more robust performance ability, mission deployment and improved reliabilit	 Iocate the ALE-47 chaff and flare haff and flare dispenser to provide an ons; and incorporate a dual access r from the mission computer. eficiencies identified in previous in situational awareness, intelligence, cy and maintainability of the CV platform.
Mission Training and Preparation Systems: The Special Operations Mission Planning and Execution (SOMPE) project func- systems to support mission planning and rehearsal required to meet SOF-unio rehearsal capabilities. The MTPS project also includes program management, reduction, and trade study initiatives, as well as initiatives to assure interoperal	ds the definition, design, development, prototypin que mission requirements and correct deficiencie systems engineering, configuration managemen bility and commonality between diverse mission p	g, integration, and testing of SOMPE s in current mission planning and t, architecture development, risk planning systems.
AC/MC-130J: The AC/MC-130J project funds core SOF-unique modifications to replace agin AC-130H Spectre, AC-130W Stinger II, AC-130U Spooky airframes. The 8 AC with MC-130J aircraft modified with the PSP to achieve the AC-130J configura missions intruding politically-sensitive or hostile territories; provide air refueling operations teams, resupply bundles and combat rubber raiding craft; and provi - integrated base defense. Additional capabilities include low-level navigation a equipment, and trainers for USSOCOM. An incremental upgrade approach will	g MC-130E Combat Talon I, MC-130P Combat S -130H Spectre, 12 AC-130W Stinger II and 17 AC tion. These platforms perform clandestine or low for special operations helicopters and CV-22 air ide close air support, air interdiction, armed recor and in-flight refueling. The Air Force will procure a I be used to incorporate SOF capabilities onto the	hadow, MC-130H Combat Talon II, C-130U Spooky airframes will be replaced visibility, single or multi-ship low-level craft; airdrop of leaflets, small special inaissance, escort, and force protection and field basic aircraft, common support e aircraft.
Rotary Wing Aviation: This project develops SOF-unique modifications and upgrades to SOF rotary v supported by this project include: MH-60M, MH-47G, and A/MH-6M. These air intensity conflicts. They must be capable of rapid deployment, undetected pen- conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The the and an upgraded air-to-air capability targeted against helicopters.	ving aircraft that operate in increasingly hostile er craft provide aviation support to SOF in worldwid etration of hostile areas, and operating at extende reat is characterized by an extensive and sophist	ivironments. Rotary wing aircraft e contingency operations and low- ed ranges under adverse weather icated ground based air defense system

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 U	nited States Spec	ial Operations Co	mmand	Date:	March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-V Operational Systems Development	Vide I BA 7:	R-1 Program El PE 1160403BB	ement (Number/Name) / Aviation Systems	,	
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	97.267	156.561	123.687	-	123.687
Current President's Budget	84.254	130.811	164.233	-	164.233
Total Adjustments	-13.013	-25.750	40.546	-	40.546
 Congressional General Reductions 	-7.835	-			
 Congressional Directed Reductions 	-	-21.412			
 Congressional Rescissions 	-0.127	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-2.090	-			
SBIR/STTR Transfer	-2.961	-4.338			
 Other Adjustments 	-	-	40.546	-	40.546

Change Summary Explanation

Funding:

FY 2013: Net decrease of \$13.686 million is due to sequestration reductions (-\$7.835 million), congressional rescissions (-\$0.127 million), a reprogramming to higher command priorities (-\$2.09 million) and a transfer of funds to Small Business Innovative Research (-\$2.961 million).

FY 2014: Net decrease of \$\$25.750 million is due to congressional reduction to C-130 TF radar system (-\$15.225 million), general program reduction (-\$6.187 million), and a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs (-\$4.338 million).

FY 2015: Increase of \$40.546 million funds EW-RFCM and TF Radar.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 U	Inited State	s Special O	perations C	command		Date: March 2014						
Appropriation/Budget Activity 0400 / 7			Project (N SF100 / Av Developme	Number/Name) Aviation Systems Advanced ment										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
SF100: Aviation Systems Advanced Development	363.765	84.254	86.179	83.699	-	83.699	82.907	87.209	35.683	17.070	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

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

A. Mission Description and Budget Item Justification

This project provides for the 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; Defensive Countermeasures (DCM) which includes Electronic Warfare – Radio Frequency Countermeasures (EW-RFCM); Precision Strike Package (PSP) for AC-130W, 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; aerial refueling; and ISR payload technological improvements with size, weight, power and integration onto all SOF ISR platforms.

• 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 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.

• Enhanced Situational Awareness: Provides SOF C-130 fleet with near-real-time intelligence reporting to include data fusion, threat detection, identification, and avoidance.

• EW-RFCM: Supports development, integration and test activities to provide EW capability against RF threats for SOF AC/MC-130J aircraft. The DCM suite is an integrated package of existing aircraft defensive systems at program start, situational awareness and threat response processing, which includes the RFCM system, and future defensive systems. RFCM program provides SOF-unique aircraft defensive capabilities required for SOF missions.

• 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 2015 United States S	Special Operations Command	Date: M	larch 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB <i>I Aviation Systems</i>	Project (Number/N SF100 / Aviation Sy Development	lame) /stems Advan	nced
 PSP Large Caliber Gun: Supports systems engineering, analysis, de on the AC-130 aircraft. 	evelopment, integration, and test of a large caliber gun	capability enhancem	ent to the PS	P installed
• C-130 TF Radar System: Supports development, integration and tes MC-130J aircraft.	at of a TF/TA radar and on-board processor to provide a	a multi-mode terrain	following cap	ability on
• SOF Common (TF/TA (Silent Knight) Radar: Supports Engineering a SOF common LPI/LPD radar to defeat advanced passive detection Assault helicopters, MC-130 Combat Talon and CV-22 Tilt-Rotor aircr	and Manufacturing Development, and developmental, o threats while maintaining ability to fly safe TF. This rad aft.	ualification, and ope ar is targeted for use	erational flight e on all MH-47	testing of 7G Heavy
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Title: SOF C-130 Avionics Modifications		0.277	-	-
FY 2013 Accomplishments: Completed the Mission Computer Replacement.				
<i>Title:</i> EC-130J Upgrades		0.118	0.670	3.503
FY 2013 Accomplishments: Continued integration of SOF-unique implementation of the C-130J blo Solo aircraft.	ock cycle upgrade installed on the EC-130J Command	D		
FY 2014 Plans: Continue integration of SOF-unique implementation of the C-130J bloc aircraft.	ck cycle upgrade installed on the EC-130J Commando	Solo		
FY 2015 Plans: Begins development of trial kit installation of C-130J block cycle upgra	ide.			
Title: Enhanced Situational Awareness		1.682	0.881	0.182
FY 2013 Accomplishments: Initiated risk reduction, development and integration of an ESA system	n on SOF C-130 aircraft.			
FY 2014 Plans: Continue risk reduction, development and integration of an ESA system	m on SOF C-130 aircraft.			
FY 2015 Plans: Begins flight test ESA system on SOF C-130 aircraft.				
<i>Title:</i> EW – RFCM		-	1.936	16.181

Exhibit R-2A, RDT&E Project Justification: PB 2015 United	States Special Operations Command	Date: N	March 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB <i>I Aviation Systems</i>	Project (Number / SF100 / Aviation S Development	Name) Systems Advar	nced
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
FY 2014 Plans: Initiate risk reduction activities and development efforts for an	EW-RFCM system on AC/MC-130J aircraft.			
FY 2015 Plans: Supports contract award for development, integration and test MC-130J aircraft.	activities to provide EW capability against RF threats for SOF	AC/		
Title: PSP for SOF		41.810	14.384	15.136
FY 2013 Accomplishments: Continued development, integration, test, and system improve	ment of the PSP on MC-130J aircraft.			
FY 2014 Plans: Continue development, integration, test, and system improvem	nent of the PSP on SOF C-130s and other SOF aircraft.			
FY 2015 Plans: Continues development, integration, test, and system improved	ment of the PSP on SOF C-130s and other SOF aircraft.			
<i>Title:</i> PSP Large Caliber Gun		-	17.555	5.931
FY 2014 Plans: Develop, integrate and test large caliber gun capability upgrade	e of the PSP on AC-130J aircraft			
FY 2015 Plans: Continues development, integration and testing of large caliber	r gun capability upgrade of the PSP on AC-130 aircraft			
<i>Title:</i> C-130 TF Radar System		18.382	28.804	32.642
FY 2013 Accomplishments: Continued development and integration of the TF Radar Syste	m onto MC-130J aircraft.			
FY 2014 Plans: Continue development, integration and test of the TF Radar Sy an Operational Utility Evaluation for the first software spiral pro and test efforts for LPI TF capabilities on MC-130J aircraft as p	ystem on MC-130J aircraft. Support developmental flight testin oviding initial TF Capabilities. Also support development, integ part of a second software spiral.	ng and ration		
FY 2015 Plans: Continues development, integration and test of the TF radar sy and capability.	vstem on two MC-130J aircraft to accelerate MC-130J TF field	ing		
Title: SOF Common TF/TA (Silent Knight) Radar		21.985	21.949	7.212

Exhibit R-2A, RDT&E Project Justif	&E Project Justification: PB 2015 United States Special Operations Command										Date: March 2014						
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 11	r ogram Ele r 60403BB / <i>A</i>	nent (Numb wiation Syste	er/Name) ems	Project (Number/Name) SF100 <i>I Aviation Systems Advanced</i> <i>Development</i>									
B. Accomplishments/Planned Prog	<u>rams (\$ in N</u>	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015						
FY 2013 Accomplishments: Continued EMD of SOF Common TF/ initiated Low Rate Initial Production c	/TA radar. C ontract.	ontinued dev	velopmental	flight testing	. Received	Milestone C	approval and										
FY 2014 Plans: Continue EMD of SOF Common TF/T	A radar. Co	mpletes dev	elopment fliç	ght testing ar	nd performs	qualification	flight testing.										
FY 2015 Plans: Continues EMD of SOF Common TF/	/TA radar. P	erforms ope	rational fligh	t testing.													
Title: EC-130J Commando Solo									-	-	2.912						
<i>FY 2015 Plans:</i> FY 2015 New Start. Begins developr aircraft.																	
				Accon	nplishment	s/Planned P	rograms Sul	ototals	84.254	86.179	83.699						
C. Other Program Funding Summa	ry (\$ in Milli	ons)															
Line Item • PROC1: C-130 Modifications	FY 2013 20.643	FY 2014 60.545	FY 2015 Base 39.095	<u>FY 2015</u> <u>OCO</u> -	FY 2015 <u>Total</u> 39.095	FY 2016 61.950	<u>FY 2017</u> 67.254	FY 20 33.1	18 FY 2019 50 33.338	Cost To Complete Continuing	<u>Total Cost</u> Continuing						
 PROC2: Precision Strike Package PROC3: Rotary Wing Upgrades and Sustainment 	67.362 74.733	93.520 110.456	145.929 112.226	-	145.929 112.226	223.351 127.575	245.749 185.251	251.4 162.5	50 255.045 18 147.355	5 539.347 5 Continuing	1,821.753 Continuing						
Remarks																	
 D. Acquisition Strategy SOF C-130 Avionics Modifications: Software. Effort is being executed via EC-130J Upgrades: Operational FI ESA: Award competitive developm 	Develop a f a an increme ight Progran ent contract	it/function/ ir ntal acquisit n Block Cycl for software	nterface replaion strategy e is being de integration e	acement mis based on SC eveloped by t effort for enh	sion compu DF C-130 av the Air Force anced situat	ter and rehos ionics obsole program of ional awarer	st existing Op escence mitig fice using exis ness hardwar	erationa jation ne sting de e to incl	al Flight Progr eed dates. velopment an ude processo	am and Fire (d production rs and display	Control contracts. /s.						

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Specia	al Operations Command	Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB <i>I Aviation Systems</i>	Project (Number/Name) SF100 <i>I Aviation Systems Advanced</i> <i>Development</i>
• EW – RFCM: Award a competitive Engineering and Manufacturing Developsystem on AC/MC-130J aircraft	opment (EMD) contract for development, integra	ation and test of an RF Countermeasure
• PSP for SOF: Incremental acquisition strategy to integrate and test the PS other SOF aircraft. Multiple contract awards.	SP and capability enhancements on MC-130J a	ircraft provided by the U.S. Air Force and the
• PSP Large Caliber Gun: Combination of Government Service activity and the PSP installed on AC-130 aircraft. Multiple contract awards.	contractor development, integration and test fo	r large caliber gun capability enhancement for
• C-130 TF Radar System: Awarded competitive EMD contract for developed contractor flight testing FY 2014; USG DT&E FY 2015; OTE FY 2016 with le	ment, integration and test in FY 2012. Executing OC Q3 FY 2016.	g incremental acquisition strategy with
• SOF Common TF/TA (Silent Knight) Radar: Executing incremental acquise option for six low-rate initial production (LRIP) units was awarded to Raythe Follow-on platforms (MC -130 & CV-22) Group A design and integration effert on radar production contract using LRIP price points will be awarded.	sition strategy with the MH-47G as the lead plath on in FY 2007. MH-60M Group A design and ir orts will be awarded. Group A production and ir	form. A competitive EMD contract with an ntegration effort was awarded in FY 2010. Installation contracts will be awarded. A follow-
• EC-130J Commando SOLO: Digital broadcast capabilities are being proc equipment into the EC-130J aircraft.	ured through an incremental acquisition strateg	y to incorporate and test readily available
<u>E. Performance Metrics</u> N/A		

xhibit R-4, RDT&E Schedule Profile: PB 2015	i Unit	ed S	tates	Spe	cial	Ope	erati	ons (Com	nma	nd											Date	e: Ma	arch	20	14		
ppropriation/Budget Activity 400 / 7								R-1 Program Element (Number/Name) PE 1160403BB <i>I Aviation Systems</i>											Project (Number/Name) SF100 <i>I Aviation Systems Advanced</i> <i>Development</i>									1
		FY	201:	3		FY 2	2014	4		FY	2015	5		FY	2016	6		FY	2017	7		FY 2	2018	5		FY 2	019	
	•	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																												
Electronic Warfare - Radio Frequency Countermeasures (EW-RFCM)																												
EW-RFCM																												
Precision Strike Package (PSP) for SOF																												
PSP for SOF																												
PSP Large Caliber Gun																												
C-130 Terrain Following Radar System																												
C-130 Developmental Testing																												
C-130 Operational Testing																												
SOF Common Terrain Following/Terrain Avoidance (Silent Knight) Radar																												
Developmental Testing																												
Operational Testing																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Oper	rations Command		Date: March 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB / Aviation Systems	Project (N SF100 / Av Developme	umber/Name) viation Systems Advanced ent	

Schedule Details

	St	art	Er	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
SOF C-130 Avionics				
SOF C-130 Avionics Modifications	3	2013	3	2013
EC-130J Commando Solo Upgrades				
EC-130J Commando Solo Upgrades	1	2013	4	2017
Enhanced Situational Awareness for MC-130H				
Enhanced Situational Awareness	3	2013	4	2016
Electronic Warfare - Radio Frequency Countermeasures (EW-RFCM)			,,	
EW-RFCM	2	2014	4	2018
Precision Strike Package (PSP) for SOF			,,	
PSP for SOF	1	2013	4	2018
PSP Large Caliber Gun	3	2014	2	2016
C-130 Terrain Following Radar System				
C-130 Developmental Testing	1	2014	4	2015
C-130 Operational Testing	1	2016	3	2016
SOF Common Terrain Following/Terrain Avoidance (Silent Knight) Radar			,	
Developmental Testing	1	2013	3	2014
Operational Testing	1	2015	3	2015

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) 0400 / 7 PE 1160403BB / Aviation Systems SF200 / CV-22 COST (\$ in Millions) Prior Years FY 2013 FY 2014 FY 2015 Base FY 2015 OCO # FY 2016 FY 2017 FY 2018 FY 2019 Cost To Complete SF200: CV-22 - - 2.817 0.182 -	
COST (\$ in Millions)Prior YearsFY 2013FY 2014FY 2015FY 2015FY 2015FY 2016FY 2017FY 2018FY 2018FY 2019Cost To CompleteSF200: CV-222.8170.182-0.182	
SF200: CV-22 - - 2.817 0.182 -	Total Cost
Quantity of RDT&E Articles - <	2.999
# The FY 2015 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 re prototyping. The funding in this project supports these block increments as well as associated flight test support. The Block 20 increment started in FY 2008. 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, avi survivability, maneuverability, mission deployment, improved reliability and maintainability of the CV platform. B. Accomplishments/Planned Programs (\$ in Millions) FY 2013 FY 2014 F FY 2014 Plans: - 2.817 Continue FOA development FOA development applied fusion and aimplicing and dimension and aimplicing. - 2.817	
Title: CV-22 Aircraft Block 20 - 2.817 FY 2014 Plans: - 2.817	t. 1pid ionics, FY 2015
FY 2014 Plans:	0.182
Continue ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and developmental testing for aircraft block upgrades. FY 2015 Plans: Continue ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and developmental testing for aircraft block upgrades.	
Accomplishments/Planned Programs Subtotals - 2.817	0.182
C. Other Program Funding Summary (\$ in Millions) FY 2015 FY 2015 FY 2015 Cost To	
Line Item FY 2013 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 FY 2019 Complete T • PROC1: CV-22 SOF Modification 126.021 108.599 25.578 - 25.578 19.703 16.123 13.226 13.480 -	otal Cost 1,696.207 4,272.414 613.166

Exhibit R-2A, RDT&E Project Jus	stification: PB	2015 United	States Spec	cial Operatio	ns Comman	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 110	ogram Elen 60403BB / A	nent (Numb	er/Name) ems	Project (I SF200 / C	Number/Na SV-22	me)	
C. Other Program Funding Sumn	nary (\$ in Milli	ons <u>)</u>									
			FY 2015	FY 2015	FY 2015					Cost To	
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	000	Total	FY 2016	FY 2017	<u>FY 2018</u>	<u>FY 2019</u>	Complete	Total Cost
 RDT&E/0604262N: 	54.512	43.084	68.816	-	68.816	60.659	53.319	53.063	-	273.513	9,363.505
V-22 RDT&E, N BA-05											
Pomarke											

<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

propriation/Budget Activity 00 / 7		:u 31	ales	She	ecial	Ope		R-1 PE ²	Pro 1160	gra 040	and am El)3BB	eme I Avi	ent (iatio	(Nun n Sy	nber ⁄sten	/ Na ns	me)		Pro SF2	jeci 200	: (Nı / CV	umb /-22	er/N	ame	20 9)	14		
		FY	2013	3		FY	2014			FY	201	5		FY	2016	;		FY	2017	,		FY 2	2018	5		FY 2	2019)
	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
CV-22																												
CV-22 Block 20 Development/Test																												
CV-22 Aircraft Deliveries		_																										

hibit R-4A, RDT&E Schedule Details: PB 2015 United States S	Date: March 2014												
propriation/Budget Activity 00 / 7	R-1 Program E PE 1160403BB	Element (Numbe I Aviation System	r /Name) ms	Project (Number/Name) SF200 / CV-22									
	Schedule Details	i											
		St	art	Er	nd								
Events by Sub Project		Quarter	Year	Quarter	Year								
CV-22													
CV-22 Block 20 Development/Test		1	2013	4	2015								
CV/ 22 Aircraft Deliveriae			2012		0040								
Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	Inited States	s Special O	perations C	Command				Date: Marc	h 2014		
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Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116040	am Elemen)3BB / Aviat	t (Number/ ion System	Name) s	e) Project (Number/Name) S750 / Mission Training and Preparati Systems				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	Total Cost			
S750: Mission Training and Preparation Systems	-	-	4.696	7.333	-	7.333	7.104	6.648	6.789	6.789 6.904 Continuing			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

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

A. Mission Description and Budget Item Justification

This project funds 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:

• The Special Operations Mission Planning and Execution (SOMPE) project develops, integrates, tests, and validates software enhancements required to meet SOFunique 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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: SOMPE	-	4.696	7.333
FY 2014 Plans: Continue required development of software applications to address SOF-unique aviation, ground and maritime mission planning requirements, data transfer software from mission planning systems to SOF helicopters, airplanes, and simulator/rehearsal systems, and automated performance models and performance prediction software. Complete testing of mission planning, data transfer and performance software completing development.			
FY 2015 Plans: Continues required development of software applications to address SOF-unique aviation, ground and maritime mission planning requirements, data transfer software from mission planning systems to SOF helicopters, airplanes, and simulator/rehearsal			

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date:									Date: Ma	ate: March 2014		
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 110	ogram Elen 60403BB / A	nent (Numb viation Syste	er/Name) ems	Project (I S750 / Mi Systems	Number/Na ssion Train	Imber/Name) ion Training and Prepa		
B. Accomplishments/Planned Prog	rams (\$ in N	<u>/lillions)</u>						F	Y 2013	FY 2014	FY 2015	
systems, and automated performance transfer and performance software co	e models and mpleting de	d performano velopment.	ce prediction	software. C	ompletes te	sting of miss	ion planning,	data				
				Accon	nplishments	s/Planned P	rograms Su	btotals	-	4.696	7.333	
C. Other Program Funding Summar	y (\$ in Milli	ons)										
	FY 2013	FY 2014	FY 2015 Base	<u>FY 2015</u> <u>OCO</u>	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
PROC1: AC/MC-130J PROC2: C-130 MODIFICATIONS Remarks	20.643	50.300 60.545	39.095	-	39.095	68.730 61.950	70.916 67.254	33.150	33.338	Continuing	Continuing	

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.

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015	Unite	ed St	ates	Spe	ecial	Оре	eratio	ons (Con	nma	nd											Dat	e: M	arch	ו 20	14		
Appropriation/Budget ActivityR-1 Prog0400 / 7PE 11604								ogra i 0403	n El BBB /	eme I Avi	ent (atio	Num n Sy	n ber sterr	/ Na i 15	me)		Pro S7: Sys	ojec t 50 / stem	t (Ni Miss ns	u mb sion	er/N Trail	l ame ning	∍) anc	d Pre	epar	ation		
		FY	2013	3	4	FY 2	2014	4	4	FY 2	2015	5	4	FY 2	2016		4	FY	2017	7		FY	2018	3		FY	2019	9
Special Operations Mission Planning and Execution (SOMPE) Software		2	3	4	1	2	З	4		2	З	4		2	3	4		2	3	4			3	4			3	4
Software Development																												_
Development Support																												
Test & Evaluation																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United State	s Special Operations Command	Date: March 2014 Number/Name) Project (Number/Name) Size / Mission Training and Propert					
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Nun PE 1160403BB <i>I Aviation Sy</i>	n ber/Name) stems	Project (Number/Na S750 / Mission Train Systems	ime) ing and Preparation			
	Schedule Details						
		Start		End			
Events by Sub Project	Quarter	Year	Quarter	Year			
Special Operations Mission Planning and Execution (So	OMPE) Software		·				
Software Development	1	2013	1	2017			
Development Support	1	2013	1	2017			
Test & Evaluation	1	2013	1	2017			

Exhibit R-2A, RDT&E Project Ju		Date: March 2014													
Appropriation/Budget Activity 0400 / 7	riation/Budget Activity					am Elemen 3BB <i>I Aviat</i>	t (Number/	Name) s	Project (Number/Name) S875 / AC/MC-130J						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	Total Cost					
S875: AC/MC-130J	-	-	9.638	5.629	-	5.629	1.889	0.411	0.419	0.419 - Continuing					
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

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

A. Mission Description and Budget Item Justification

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 (ESA), electronic warfare and survivability systems, and other SOF mission kits. Provides PSP aircraft infrastructure development.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: MC-130J	-	5.282	2.848
FY 2014 Plans: Continue SOF-unique mission improvements including, but not limited to, MC-130J Increment 3 development, integration, and test efforts.			
FY 2015 Plans: Continues SOF-unique mission improvements including, but not limited to, MC-130J Increment 3 development, integration, and test efforts.			
Title: Enhanced Situational Awareness	-	0.484	1.705
FY 2014 Plans: Initiate Enhanced Situational Awareness (ESA) integration and test on the MC-130J aircraft.			
FY 2015 Plans:			

Exhibit R-2A, RDT&E Project Justif	ication: PB	2015 United	States Spec	cial Operatio	ns Comman	d			Date: Ma	rch 2014		
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 110	ogram Elen 60403BB / A	n ent (Numb viation Syste	er/Name) ems	Project (S875 / A	Number/Na C/MC-130J	lame) J		
B. Accomplishments/Planned Prog	rams (\$ in N	<u>lillions)</u>						F	Y 2013	FY 2014	FY 2015	
Continues ESA integration and test.												
<i>Title:</i> AC-130J									-	3.872	1.076	
FY 2014 Plans: Develop and test aircraft modification	designs for	PSP kit insta	allation.									
FY 2015 Plans: Develops and tests aircraft modification	on designs fo	or PSP kit in	stallation.									
				Accon	nplishments	/Planned P	rograms Sul	ototals	-	9.638	5.629	
C. Other Program Funding Summa	y (\$ in Milli	ons <u>)</u>										
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>		
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	<u>000</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	Total Cost	
• PROC1: AC/MC-130J	26.701	50.300	65.130	-	65.130	68.730	70.916	165.144	185.672	Continuing	Continuing	
PROC2: Precision Strike Package	67.362	93.520	145.929	-	145.929	223.351	245.749	251.450	255.045	539.347	1,821.753	
<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 PSP program.

E. Performance Metrics

N/A

IIIDIL K-4, KUI &E SCREAUIE Profile: P		eu St	ates	Spe		pera	lions	Com	man	J																
propriation/Budget Activity							R-1 PE	Prog 11604	jram 403E	Elem BB / A	ent /iatio	(Nu on Sj	mbe yste	r/Na ms	me)		Pro S87	ject '5 / /	(Nu 4 <i>C/I</i>	mbe //C-1	er/N 30	ame) /)			
		FY	2013		F	Y 201	14	F	FY 20)15		FY	201	6		FY 2	2017			FY 2	018	8		FY 2	2019)
	1	2	3	4	1	2 3	8 4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AC/MC-130J					I											1	1									
Development/Test																										

ibit R-4A, RDT&E Schedule Details: PB 2015 United St	2015 United States Special Operations Command Date: March 2						
oropriation/Budget Activity 0 / 7	R-1 Program Element (Number PE 1160403BB / Aviation System	er/Name) ms	Project (Number/Name) S875 / AC/MC-130J				
	Schedule Details		oject (Number/Name 375 / AC/MC-130J				
	St	art	E	nd			
Events by Sub Project	t Quarter	art Year	E Quarter	nd Year			
Events by Sub Project	t Quarter	art Year	Quarter	nd Year			

Exhibit R-2A, RDT&E Project Ju	Date: March 2014											
Appropriation/Budget Activity 0400 / 7		R-1 Progra PE 116040	am Elemen)3BB <i>I Aviat</i>	t (Number/ ion System	Project (N D615 / Rot	oject (Number/Name) 15 / Rotary Wing Aviation						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
D615: Rotary Wing Aviation	-	-	27.481	67.390	-	67.390	59.449	23.520	16.558	16.811	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This project 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 world-wide 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 recurring 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 improvement efforts will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade Non-Developmental Item/Commercial Off-the-Shelf will replace obsolescent components and provide improved battlefield situational awareness to the aircrews and customers necessary to support time sensitive mission requirements. This upgrade is critical in keeping the A/MH-6M aircraft operational through FY 2020 and beyond, or until a suitable replacement aircraft is available. The non-recurring effort supports development, fabrication of test hardware, qualification of components and systems, and data items to support issuance of Government airworthiness releases for structural and software modifications.

• MH-60 SOF Modernization program provides for the recurring/non-recurring 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.

• 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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special	Operations Command	Date: N	larch 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB / Aviation Systems	Project (Number/ D615 / Rotary Win	Name) g Aviation	
 Infrared Countermeasure (IRCM) program provides a low Space, Weight, a The IRCM program will develop, integrate, qualify, and test a complete lightwo The A/MH-6 is the only tactical aircraft in the U.S. Army inventory without prof 	and Power (SWaP) capability suitable for the A reight IRCM system to include a missile warnin tection from IR guided, and other advanced M	VMH-6 Mission Enha g system and counte an Portable Air Defer	anced Little Bir ermeasure cap nse missiles.	d (MELB). ability.
• MH-47 Modifications and Upgrades program develops technologies to implinclude the Active Parallel Actuator System (APAS), Active Noise Cancellation	rove performance and safety of the MH-47G a n (ANC), and Engine Barrier Filter.	nd decrease operation	onal costs. Eff	forts
 Mission Processor Upgrade (MPU) program provides for non-recurring engithe replacement and upgrade of the current mission and video processors for increases the processing power to support critical functionality and emerging This MPU provides the processing and memory resources required to incorport Air Traffic Management replaces ground-based navigation aids with a capabil space-based navigation systems; (2) Situational Awareness for Safe Aircraft I providing three-dimensional displays with flight path guidance to increase batt fuses information on threat, route, weather, terrain, and friendly forces, instan levels, and night conditions. This program is an FY 2015 new start. Next Generation Forward Looking Infrared (NGFLIR) program is a pre-plar Image Intensifying TV, and Color Day TV) into the existing Q2 Electro-Optical This program also maximizes the service life of the Q2 sensor by mitigating o ARSOA fleet. This program is an FY 2015 new start. 	gineering, systems engineering/testing, and fut r all Army Special Operations Aviation (ARSO/ technologies that will be integrated into the Co orate the following functions into the General F lity that meets the international requirement th Recovery provides passive survivability for flig the space awareness in zero-visibility condition ataneously adjusting an aircraft's route to prote need product improvement that incorporates a I Sensor System. This will improve targeting, the obsolescence and increasing functionality on the	ure aircraft architecto A). Upgrading all inter ommon Avionics Arch Purpose Processing U at all aircraft be comp ht operations in all w us; (3) Cognitive Deci ct the flight crew in h multispectral sensor tracking, and aircrew ie light and heavy as	ure studies that ernal processo nitecture Syste Jnit (GPPU): (oliant with digit eather condition sion Aiding Sy azardous wea (Shortwave In situational aw sault platforms	tt support rs (CAAS). 1) Global tal and ons by rstem ther, low ffrared, areness. s within the
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<i>Title:</i> A/MH-6M Block 3.0 Upgrade		-	12.420	20.037
FY 2014 Plans: Continue to development of cockpit upgrades, improved rotor systems, and up	pgrades to airframe.			
FY 2015 Plans: Continues development of cockpit upgrades, improved rotor systems, and upg	grades to airframe.			
Title: MH-60 SOF Modernization Program		-	1.211	13.500
FY 2014 Plans: Begin flight and qualification testing for the MH-60M Block 1 upgrade.				
FY 2015 Plans: Continues flight and qualification testing for the MH-60M Block 1 upgrades.				
Title: DVE				

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Specia	I Operations Command		Date: N	/larch 2014	
Appropriation/Budget Activity 0400 / 7	Project (N D615 / Roi	umber/l tary Win	Name) g Aviation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2013	FY 2014	FY 2015
FY 2014 Plans: Continue development of DVE sensor solution.					
FY 2015 Plans: Continues development of DVE sensor solution.					
Title: FVL			-	0.968	1.299
FY 2014 Plans: Begin to identify classes of FVL technology development most applicable to of Alternatives conducted by the Joint FVL Program Office.	SOF Aviation platforms and participate in the An	alysis			
FY 2015 Plans: Continues participation in the Joint Integrated Product Team (IPT) materiel s requirements into the baseline planning and requirements documents that pr Focus will be on current fleet operations and support cost analysis, logistics front end better buying power initiatives.	colution analysis with a focus on injecting SOF rovides a minimum of SOF-Peculiar modification analysis, and cost estimation methodology to inc	s. Iude			
Title: IRCM			-	1.500	2.498
FY 2014 Plans: Begin development, integration, and qualification testing of a missile warning the A/MH-6 aircraft.	g and lightweight infrared countermeasure syster	n for			
FY 2015 Plans: Continues development, integration and qualification testing of missile warnin aircraft.	ng and lightweight IRCM systems for the A/MH-6	6			
Title: MH-47 Modifications and Upgrades			-	-	7.000
<i>FY 2015 Plans:</i> Begins development of APAS and the Engine Barrier Filter for the MH-47G.					
Title: MPU			-	-	3.000
FY 2015 Plans: Begins development and testing of replacement mission and video processo This program is an FY 2015 new start.	ors for the Army Special Operations Aviation plat	orms.			
<i>Title:</i> NGFLIR			-	-	3.080
FY 2015 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014													
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 116	R-1 Program Element (Number/Name)ProjectPE 1160403BB / Aviation SystemsD615 / F					ect (Number/Name) 5 / Rotary Wing Aviation			
B. Accomplishments/Planned Programs (\$ in Millions) FY 2013 FY 2014 FY 2015													
Begins development, integration an program is an FY 2015 new start.	d testing of the	e multi-spect	ral sensor in	to the Q2 EI	ectro-Optica	I Sensor Sys	stem (EOSS).	This					
				Accon	nplishments	/Planned P	rograms Sub	ototals	-	27.481	67.390		
C. Other Program Funding Summ	ary (\$ in Milli	ons)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>			
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 201	<u>8 FY 2019</u>	<u>Complete</u>	Total Cost		
 PROC 1: Rotary Wing 	74.733	110.456	112.226	-	112.226	127.575	185.251	162.51	8 147.355	6 Continuing	Continuing		
Upgrades and Sustainment													
<u>Remarks</u>													

D. Acquisition Strategy

1. A/MH-6M Block 3.0 Upgrade comprises 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 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 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 Firm Fixed Price contract. Airframe modification and integration work will be conducted at the Special Operations Forces Support Activity (SOFSA) by the incumbent contractor.

2. MH-60M SOF Modernization Program supports the systems integration and qualification efforts on the prototype Block 1 MH-60M helicopter. This includes, but is not limited to, government and contractor flight test support, engineering analysis, documentation, and airworthiness substantiation. Contractor flight test support will be conducted by Sikorsky Aircraft, while aircraft modification efforts will be performed at the SOFSA by the incumbent contractor.

3. DVE - Effort will be a competitive source selection that will procure, integrate, and install components to provide real-time "see through" imagery and heads up display of visual cues for obstacle avoidance and landing zone information during all phases of flight. DVE will increase MH-60 and MH-47 and customer survivability in degraded visual environments.

4. FVL - This effort is the SOF aviation participation in the Joint FVL effort to develop the next generation of vertical takeoff and landing aircraft and establishes the foundation for the transformation of the DoD vertical lift Aviation capabilities over the next forty years.

5. IRCM - 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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014										
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB / Aviation Systems	Project (N D615 / Rot	umber/Name) ary Wing Aviation							
6 MH 47 Modifications and Lingrades. These efforts develop technologies to improve performance and safety of the MH 47C and decrease operational costs. Effort										

6. MH-47 Modifications and Upgrades - These efforts develop technologies to improve performance and safety of the MH-47G and decrease operational costs. Efforts include the APAS, ANC and Engine Barrier Filter. The upgrades and modifications mostly consist of Government executed integration, testing and qualification efforts with some analytical engineering services to be completed.

7. Mission Processor Upgrade (MPU) - The General Purpose Processing Unit (GPPU) non-recurring engineering (NRE) supports improvements to the video processing and Ethernet switch capabilities for Common Avionics Architecture System aircraft. The engineering and testing will be sole source to Rockwell Collins, the OEM for the GPPU. The DCU Modernization NRE will be used to improve analog-to-digital signal processing and reliability, as well as reduce weight. The DCU efforts will be sole source to Sanmina SCI, the OEM for the DCU. The Future Aircraft Architecture Studies will be competitively awarded.

8. Next Generation Forward Looking Infrared (NGFLIR) - The NGFLIR integration of a multi-spectral sensor into the Q2 EOSS will be sole-source procurement through Raytheon. As the Original Equipment Manufacturer (OEM), Raytheon maintains overall responsibility for the Q2 System, and will develop an acquisition strategy to develop, test, and integrate the multi-spectral sensor. Raytheon is closely monitoring the joint TAPO/Night Vision Electronic Sensors Directorate multi-spectral work, and is currently using Independent Research and Development to further mature that technology.

E. Performance Metrics

N/A

hibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command									Date: March 2014																				
ppropriation/Budget Activity 400 / 7		R-1 Program Element (Number/Name)PrPE 1160403BB / Aviation SystemsD6										Project (Number/Name) D615 / Rotary Wing Aviation																	
	FY 2013		FY 201		201	4	FY 2015			FY 2	201	6		FY 2017			FY 2018		8	FY 2019									
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	1	2	3	4	1	2	3	4	1	2	3	4
A/MH-6M Block 3.0 Development/Qualification/ Testing		_																											
MH-60 SOF Modernization Program Qualification/Testing Block 1																													
Degraded Visual Environment																													
Future Vertical Lift																													
Infrared Countermeasure																													
MH-47G Low Cost Mods Qualification/Testing																													
Mission Processor Upgrade																													
Next Generation Foward Looking Infrared																													

khibit R-4A, RDT&E Schedule Details: PB 2015 United States S	Date: March 2014					
ppropriation/Budget Activity 100 / 7	R-1 Program PE 1160403B	Element (Number B I Aviation Syster	Project (Num D615 / Rotary	Number/Name) Potary Wing Aviation		
	Schedule Detail	S				
		Sta	art		End	
Events		Quarter	Year	Quai	rter	Year
A/MH-6M Block 3.0 Development/Qualification/Testing		1	2014	2	2	2017
MH-60 SOF Modernization Program Qualification/Testing Block	k 1	3	2014	4		2019
Degraded Visual Environment		3	2014	3	6	2016
Future Vertical Lift		1	2014	4		2018
Infrared Countermeasure		3	2014	4		2016
MH-47G Low Cost Mods Qualification/Testing		2	2015	4		2019
Mission Processor Upgrade		2	2015	1		2016
Next Generation Foward Looking Infrared		2	2015	1		2016

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160404BB / Special Operations Tactical Systems Development									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
Total Program Element	22.982	0.701	-	-	-	-	-	-	-	-	-	23.683		
S710: SO Tactical Systems (Automation)	22.982	0.701	-	-	-	-	-	-	-	-	-	23.683		

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

<u>Note</u>

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.

Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	0.821	-	-	-	-
Current President's Budget	0.701	-	-	-	-
Total Adjustments	-0.120	-	-	-	-
 Congressional General Reductions 	-0.095	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.001	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-0.024	-			
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spec	cial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160404BB <i>I Special Operations Tactical Systems I</i>	Development
FY2013: Decrease of \$0.120 million is due to sequestration reductions funds to Small Business Innovative Research (-\$0.024 million).	s (-\$0.095 million), congressional rescission reductions (-{	\$0.001 million), and a transfer of
Sequestration Impact: Decrease required project re-scope and renego	otiation.	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	stification	PB 2015 l	Jnited State	s Special C	Operations	Command				Date: Ma	arch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Prog PE 11604 <i>Tactical</i> S	ram Eleme 04BB / Spe systems De	ent (Number ecial Operati velopment	/ Name) ions	Project (S710 / S	Number/Na O Tactical S	ame) Systems (Aut	omation)
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	5 FY 2016	FY 2017	FY 2018	B FY 2019	Cost To Complete	Total Cost
S710: SO Tactical Systems (Automation)	22.982	0.701	-	-	-	-		-	-			23.683
Quantity of RDT&E Articles	-	-	-	-	-	-	· _	-	-	· -	-	
 A. Mission Description and Buc This project provides for develop (SOF). Specialized automation e are generally conducted in harsh conduct unconventional warfare, forces. The requirement to opera ensure mission success. The Tactical Local Area Networ capabilities to support situational and field computing devices. 	Iget Item Ji ment, testin equipment w environmen direct action ate in denied k (TACLAN awareness	ustification g, and integ vill permit sints, for uns n, or deep r d areas con) provides \$, mission pl	n gration of sp mall, highly pecified per reconnaissa trolled by a SOF operati anning and	becialized a trained force iods and in ince operat sophisticat ional comm execution,	automation of ces to cond locations r ions in den ted threat n nanders and and comm	equipment uct required equiring sn ied areas a nandates th d forward d and and co	to meet the d operations nall unit auto against insurg nat SOF syst eployed forc ontrol of force	unique requ across the nomy. SOF gent units, to ems remain es advance es. The pro	irements o entire spec must infil errorists, o technolog d automate gram cons	of Special O ctrum of con trate by land r highly sop jically super ed data pro ists of suite	operations Fo nflict. These d, sea, and a phisticated th rior to threat cessing and es, mission p	orces operations ir to reat forces to display anning kits
B. Accomplishments/Planned P	rograms (\$	in Million	s)						F	Y 2013	FY 2014	FY 2015
Title: TACLAN Suites	•									0.701	-	-
FY 2013 Accomplishments: Started design and integration of	the next gei	neration TA	CLAN.									
					Accompli	ishments/F	Planned Pro	grams Sub	ototals	0.701	-	-
C. Other Program Funding Sum Line Item • PROC1: Automation Systems Remarks	mary (\$ in <u>FY 20</u> 63.3	Millions) 1 <u>13 FY 2</u> 339	<u>FY</u> 2014 I	<u>2015 FY 3ase</u> -	<u>(2015</u> F <u>OCO</u> -	T <u>Y 2015</u> <u>Total</u> -	<u>FY 2016</u> -	FY 2017 -	<u>FY 2018</u> -	FY 2019 -	Cost To Complete -	<u>Total Cost</u> 63.339
PE 1160404BB: Special Operation	ns Tactical S	Systems De	evelopment	UN	ICLASSI	FIED						

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Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March									
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160404BB <i>I Special Operations</i> <i>Tactical Systems Development</i>	Project (N S710 / SO	umber/Name) Tactical Systems (Automation)						

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-2, RDT&E Budget Iten		Date: March 2014										
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmen	BA 7:	R-1 Progr a PE 116040										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	522.759	23.822	7.705	9.490	-	9.490	6.436	6.465	6.589	5.898	Continuing	Continuing
S400: SO Intelligence Systems	522.759	23.822	7.705	9.490	-	9.490	6.436	6.465	6.589	5.898	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that 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, tagging, tracking, and locating devices, 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 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	25.935	7.705	7.769	-	7.769
Current President's Budget	23.822	7.705	9.490	-	9.490
Total Adjustments	-2.113	-	1.721	-	1.721
 Congressional General Reductions 	-2.079	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.034	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Other Adjustments 	-	-	1.721	-	1.721

Change Summary Explanation

Funding:

FY 2013: Decrease of \$2.113 million is due to sequestration reductions (-\$2.079 million) and congressional rescissions (-\$0.034 million).

xhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spectra	ecial Operations Command	Date: March 2014
ppropriation/Budget Activity 400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: perational Systems Development	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Devel	lopment
Sequestration Impacts: Delayed development and follow-on prototype Intelligence payloads for 22 SOF maritime craft by one year.	e production of Joint Threat Warning System (JT	TWS) Maritime carry on/carry off Signals
FY 2014: None.		
FY 2015: Increase of \$1.721 million supports Hostile Forces-Tagging Integrated Survey Program integration/operational testing (\$0.278 mi	g, Tracking, and Locating equipment integration/ illion) and JTWS equipment integration/operatior	/operational testing (\$0.731 million), nal testing (\$0.712 million).
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command											
Appropriation/Budget Activity 0400 / 7						a m Elemen 95BB / Intell ent	t (Number/l igence Syst	Project (Number/Name) S400 / SO Intelligence Systems				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S400: SO Intelligence Systems	522.759	23.822	7.705	9.490	-	9.490	6.436	6.465	6.589	5.898	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that 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, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. The systems developed and tested in this line item are Hostile Forces - Tagging, Tracking, and Locating (HF-TTL); Integrated Survey Program (ISP); Counter-Proliferation Analyses and Planning System (CAPS); Joint Threat Warning System (JTWS); National Systems Support to SOF (NSSS); and 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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014									
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (N S400 / SO	umber/Name) Intelligence Systems						

This state-of-the-art technology enables SOF operators to provide critical time-sensitive targeting and actionable intelligence to the operational 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).

• HF-TTL. This program utilizes a commodity procurement strategy to provide SOF warfighters with the necessary tools to find, fix, and finish terrorist networks through the emplacement of sophisticated tags and devices that feed into an integrated architecture. HF-TTL provides Regional Combatant Commanders and SOF operators with an immediate capability to tag, track, and locate people, things, and activities. The HF-TTL program provides actionable intelligence for SOF planners. The Mission Sets are comprised of a mix of different classes of tags and their associated detection, interrogation, viewing, tracking, and communications systems that are fielded annually to SOF Components and Theater Special Operations Commands (TSOC) based upon dynamic and emergent SOF operational requirements.

• 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.

ABOVE OPERATIONAL ELEMENT (GARRISON)

• 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. 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 transferred to the Defense Intelligence Agency (DIA) for consolidation and interface with DIA's Counter Weapons of Mass Destruction (WMD) Analysis Cell in FY 2014.

• ISP. This program supports Joint Chiefs of Staff contingency planning. ISP collects and produces current, detailed, tactical planning data to support military operations to counter threats against US citizens, interests, and property located both domestic and overseas. ISP products are specifically tailored packages that reflect unevaluated operational information as well as intelligence data for use by DoD and DoS to support operational planners for Counter-Terrorism operations, evacuations, and other rescue missions.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special C	Operations Command		Date: N	larch 2014			
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (S400 / S	Project (Number/Name) S400 / SO Intelligence Systems				
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2013	FY 2014	FY 2015		
Title: NSSS			0.783	0.795	0.807		
<i>FY 2013 Accomplishments:</i> Developed SOF-required prototype capabilities, primarily through leveraging cut the National Intelligence Community (NIC), while coordinating with other SOCC and operational fielding of the successful capabilities. Emphasis areas include support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, environments.	urrent or developing technologies and assets i DM and NIC Programs of Record for productio d Intelligence, Surveillance, Reconnaissance , as well as FFT, especially in system-challeng	n n (ISR) jed					
<i>FY 2014 Plans:</i> Develop SOF-required prototype capabilities, primarily through leveraging current NIC, while coordinating with other SOCOM and NIC Programs of Record for pricapabilities. Emphasis areas will include ISR support for Tagging, Tracking, are well as FFT, especially in system-challenged environments.	ent or developing technologies and assets in t oduction and operational fielding of the succes nd higher-accuracy Geolocating hostile forces,	he ssful , as					
<i>FY 2015 Plans:</i> Develops SOF-required prototype capabilities, primarily through leveraging cur NIC, while coordinating with other SOCOM and NIC Programs of Record for pr capabilities. Emphasis areas will include ISR support for Tagging, Tracking, ar well as FFT, especially in system-challenged environments.	rrent or developing technologies and assets in oduction and operational fielding of the succes nd higher-accuracy Geolocating hostile forces,	the ssful , as					
Title: JTWS			3.758	6.543	7.301		
FY 2013 Accomplishments: Continued networking and testing within the JTWS Family of Systems (FoS) ar technologies in downsized hardware/software configuration on all variants. Co JTWS Maritime variant.	nd implemented Time Difference of Arrival ontinued development, integration and testing o	of					
FY 2014 Plans: Continue networking and testing within the JTWS FoS and continue spiral development.	elopment for all variants. Begin JTWS Maritim	e					
FY 2015 Plans: Continues networking and testing within the JTWS FoS and continues spiral de Maritime prototype development.	evelopment for all variants. Continues JTWS						
Title: HF-TTL			-	-	0.731		
FY 2015 Plans:							

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command										Date: March 2014				
Appropriation/Budget Activity 0400 / 7	Project (S400 / S	Number/Na O Intelligen	ame) ce Systems											
B. Accomplishments/Planned Pro	grams (\$ in I	<u>Aillions)</u>						F	Y 2013	FY 2014	FY 2015			
This is a FY 2015 new start. Begins	specialized of	levice integr	ation and op	erational tes	sting and eva	luation.								
Title: SOTVS									-	0.367	0.373			
FY 2014 Plans: Begin integration/operational testing configuration on all systems.	within the SC	DTVS FoS fo	r technology	/ insertions c	of improved/o	downsized ha	ardware/softw	ware						
FY 2015 Plans: Continues integration/operational tessoftware configuration on all system	sting within th s.	e SOTVS Fo	S for techno	ology insertic	ons of impro	ved/downsize	ed hardware/	,						
Title: CAPS									19.281	-	-			
FY 2013 Accomplishments: Completed Spiral 13 and transitione	d program ma	anagement t	o the DIA.											
Title: ISP									-	-	0.278			
FY 2015 Plans: This is a FY 2015 new start. Begins and support the latest standards and	developmen technology.	t for the mod	lernization o	f the ISP sys	stem to integ	rate with ent	erprise archit	tecture						
				Accon	nplishment	s/Planned P	rograms Su	btotals	23.822	7.705	9.490			
C. Other Program Funding Summa	ary (\$ in Milli	<u>ons)</u>	EV 2046	EV 2046	EV 2045					Coot To				
l ine Item	FY 2013	FY 2014	<u>FT 2015</u> Base	<u>0CO</u>	Total	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost			
• PROC1: Intelligence Systems	92.870	93.119	81.001	-	81.001	99.631	99.600	96.230	97.370	Continuing	Continuing			
<u>Remarks</u>										C				
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 NIC 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.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014									
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (N S400 / SO	umber/Name) Intelligence Systems						

• 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.

• HF-TTL is a fielded program that utilizes a commodity procurement acquisition strategy to provide highly sophisticated TTL and close target audio/video devices capable of operating in various environments as needed to meet SOF operational requirements. Commercial and government agency sources will be leveraged for required certifications, device level integration, functional, and operational testing and evaluations.

• 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 a 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 transferred to the Defense Intelligence Agency in FY 2014.

• ISP is an operational system that employs an evolutionary strategy to insert emerging technologies for collection, processing, exploitation and dissemination capabilities tailored to SOF user-defined mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

E. Performance Metrics

N/A

khibit R-4, RDT&E Schedule Profile: PB 2015 U	nite	ed S	state	s Sp	pecia	al Op	oerat	ions	Con	nma	nd											Date	e: M	arch	20	14		
opropriation/Budget Activity 00 / 7					R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development							Project (Number/Name) S400 / SO Intelligence Systems																
		FY 2013 FY 201			201	14 FY 2015 FY 2016						FY	2017			FY 201		018		FY 20)						
	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	1	2	3	4
National Systems Support to SOF Participation in Space Technology Dev and Demo				I		I				1	1	II		1	1	1	<u>I</u>	1	1	<u> </u>	1	1	1	II			<u> </u>	1
National Systems Support to SOF Participation in Space Technology Dev and Demo																												
Counter-Proliferation Analysis and Planning System Integration																												-
Counter-Proliferation Analysis and Planning System Integration																												
Joint Threat Warning System		_																										
Variant Development, Test and Eval																												
Special Operations Tactical Video System																												
System Integration Operational Testing																												
Hostile Forces - Tagging, Tracking, and Locating																												-
Device Integration Operational Testing																												
Integrated Survey Program																												
System Integration Operational Testing																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command Date: March 2014										
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (N S400 / SO	umber/Name) Intelligence Systems							

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
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	2013	4	2019
Counter-Proliferation Analysis and Planning System Integration			· · · · ·	
Counter-Proliferation Analysis and Planning System Integration	1	2013	4	2013
Joint Threat Warning System				
Variant Development, Test and Eval	1	2013	4	2019
Special Operations Tactical Video System				
System Integration Operational Testing	2	2014	4	2019
Hostile Forces - Tagging, Tracking, and Locating				
Device Integration Operational Testing	2	2015	4	2019
Integrated Survey Program			· · ·	
System Integration Operational Testing	2	2015	4	2016

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Exhibit R-2, RDT&E Budget Iten	n Justificati	on: PB 201	15 United St	ates Speci	al Operation	s Comman	ıd			Date: Mare	ch 2014				
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmer	est & Evalua nt	tion, Defen	se-Wide I B	A 7:	R-1 Program Element (Number/Name) PE 1160408BB / Operational Enhancements										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
Total Program Element	75.010	56.754	41.252	75.253	-	75.253	63.128	57.297	64.607	67.191	Continuing	Continuing			
S500A: Operational Enhancements	75.010	56.754	41.252	75.253	-	75.253	63.128	57.297	64.607	67.191	Continuing	Continuing			
A. Mission Description and Bud Details are provided under separa	l get Item Ju ate cover.	stification			51/ 004	<i>.</i> -						4.1			
B. Program Change Summary (\$ in Million	<u>s)</u>		FY 2013	<u>FY 201</u>	<u>4</u> <u>F</u>	Y 2015 Bas	<u>se</u>	<u>FY 2015 OC</u>	<u>.0</u>	FY 2015 10	otal			
Previous President's Budget Current President's Budget Total Adjustments • Congressional General Reductions			51.700 56.754 5.054 -5.933		42.62 41.25 -1.36 -	0 2 8	75.329 75.253 -0.076			-	75.2 75.2 -0.0	253 276			
Congressional Directed Reductions Congressional Rescissions Congressional Adds Congressional Directed Transfers Reprogrammings SBIR/STTR Transfer		-0.083 16.000 - -3.415 1.515		- - - -1.36	8										
Other Adjustmen	nts			-	-		-0.07	76		-	-0.0	076			

Change Summary Explanation

Funding:

FY2013: Net increase of \$5.054 million is due to sequestration reductions (-\$5.933 million), congressional rescissions (\$-0.083 million), an increase for a congressional add (\$16.000 million), reprogrammings for higher command priorities (-\$3.415 million), and a transfer of funds to Small Business Innovative Research (-\$1.515 million).

FY2014: Decrease of \$1.368 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs.

FY2015: Decrease of -\$0.076 million is due to realignment of funds to higher command priorities.

Schedule: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	Date: March 2014						
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name)Defense-Wide I BA 7:PE 1160408BB I Operational Enhancements						
Technical: None.							

Exhibit R-2, RDT&E Budget Item	tates Speci	al Operatior	ns Commar		Date: March 2014								
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160421BB / Special Operations CV-22 Development								
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	Cost To Complete	Total Cost						
Total Program Element	523.800	2.076	-	-	-	-	-	-	-	-	-	525.876	
SF200: SO CV-22	523.800	2.076	-	-	-	-	-	-	-	-	-	525.876	

[#] The FY 2015 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.

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.

Program Change Summary (\$ in Millions)	FY 2013	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	1.822	-	-	-	-
Current President's Budget	2.076	-	-	-	-
Total Adjustments	0.254	-	-	-	-
 Congressional General Reductions 	-0.089	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.003	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	0.403	-			
SBIR/STTR Transfer	-0.057	-			
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Species	ial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160421BB / Special Operations CV-22 Development	nt
FY 2013: Net increase of \$0.254 million is due to sequestration reducti support Specialized Automated Mission Suite-Enhanced Situational Aw Business Innovative Research (-\$0.057 million).	ons (-\$0.089 million), congressional rescission (-\$0.003 n areness Non-recurring engineering (\$0.403 million), and	nillion), a reprogramming to a transfer of funds to Small
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command											Date: March 2014				
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name)Project (Number/Name)PE 1160421BB / Special Operations CV-22SF200 / SO CV-22DevelopmentSF200 / SO CV-22					umber/Nar CV-22	ne)				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
SF200: SO CV-22	523.800	2.076	-	-	-	-	-	-	-	-	-	525.876			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					
#			• •												

[#] The FY 2015 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 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 Prog	rams (\$ in N	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015
Title: CV-22 Aircraft Block 20	2.076	-	-								
FY 2013 Accomplishments: Continued Enhanced Situational Awa training and simulation capabilities.	areness deve	lopment pro	viding enhar	nced, correla	ted, fusion a	and display, t	hreat respor	ise,			
				Accon	nplishments	s/Planned P	rograms Su	btotals	2.076	-	-
C. Other Program Funding Summa	ry (\$ in Milli	<u>ons)</u>									
			FY 2015	<u>FY 2015</u>	<u>FY 2015</u>					Cost To	
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 20 ⁻	18 FY 2019	<u>Complete</u>	Total Cost
• PROC1: CV-22 SOF Modification	126.021	98.927	25.578	-	25.578	19.703	16.123	13.22	26 13.480	-	1,696.207
PROC/V022A0: Aircraft Procurement CV-22 (MYP)	423.475	230.798	-	-	-	-	-			-	4,272.414
• RDT&E1/0401318F: RDT&E, USAF	28.027	30.438	25.596	-	25.596	16.524	14.308	14.50	- 66	131.500	613.166
• RDT&E/0604262N: V-22 RDT&E, N BA-05	54.436	30.350	60.421	-	60.421	54.720	52.202	53.00	- 53	273.513	9,363.505

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

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Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command									Date: March 2014			
Appropriation/Budget Activity 0400 / 7				R-1 P PE 11 <i>Devel</i>	rogram Elen 60421BB / S opment	n ent (Numb pecial Opera	er/Name) ations CV-22	Project (Number/Name) SF200 / SO CV-22				
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>										
Line Item	FY 2013	FY 2014	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	FY 2015 Total	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> Complete	Total Cost	

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-4, RDT&E Schedule Profile: PB 20	015 Unite	ed St	ates	Spe	cial	Ope	eratio	ons (Con	nmar	nd										1	Date	e: Ma	arch	20	14		
Appropriation/Budget Activity 400 / 7	Budget Activity								R-1 Program Element (Number/Name)ProjectionPE 1160421BB / Special Operations CV-22SF200DevelopmentSF200								jec 1 200	t (Nu / SC	umbo CV	er/N -22	ame)						
		FY	2013	\$		FY	2014	Ļ		FY 2	2015	5		FY 2	2016			FY 2	2017	,		FY 2	2018			FY 2	2019	Э
	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
CV-22																												
CV-22 Block 20 Development/Test																												
CV-22 Aircraft Deliveries (PROC)		_																			-							

hibit R-4A, RDT&E Schedule Details: PB 2015 United States Sp	RDT&E Schedule Details: PB 2015 United States Special Operations Command Budget Activity R-1 Program Element (Number/Name) PE 1160421BB / Special Operations CV-22 Second CV-22							
propriation/Budget Activity 00 / 7	Project (Numb SF200 / SO CV	er/Name) /-22						
	Schedule Details							
	Sta	ırt		End				
Events by Sub Project	Sta Quarter	nrt Year	Quart	End ter Year				
Events by Sub Project	Sta Quarter	ırt Year	Quart	End ter Year				
Events by Sub Project CV-22 CV-22 Block 20 Development/Test	Sta Quarter 1	rrt Year 2013	Quart	End ter Year 2015				

Exhibit R-2, RDT&E Budget Iter	n Justificat	i on: PB 201	15 United S	tates Speci	al Operation	ns Comman	ıd			Date: Mar	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, To Operational Systems Development	BA 7:	R-1 Progr a PE 116042	am Elemen 27BB / <i>Miss</i>	t (Number/ ion Training	Name) and Prepa	ration Syste	ems (MTPS))				
COST (\$ in Millions)	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
Total Program Element	17.303	8.013	-	-	-	-	-	-	-	-	-	25.316
S750: Mission Training and Preparation Systems	-	-	-	-	-	-	-	-	25.316			

[#] The FY 2015 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 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	10.131	-	-	-	-
Current President's Budget	8.013	-	-	-	-
Total Adjustments	-2.118	-	-	-	-
 Congressional General Reductions 	-0.740	-			
 Congressional Directed Reductions 	-1.324	-			
 Congressional Rescissions 	-0.012	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	0.225	-			
SBIR/STTR Transfer	-0.267	-			

Change Summary Explanation

Funding:

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Speci	ial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160427BB <i>I Mission Training and Preparation Syste</i>	ems (MTPS)
FY 2013: Net decrease of \$2.118 million is due to sequestration reduct Avoidance Simulator RDT&E to Procurement (-\$1.324 million), congres efforts (\$0.225 million), and a transfer of funds to Small Business Innov	tions (-\$0.740 million), a decrease due to transfer of funds ssional rescissions (-\$0.012 million), a reprogramming to s ative Research (-\$0.267 million).	from Terrain Following/Terrain upport data transfer software
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 U	Inited State	s Special C	perations C	Command				Date: Marc	h 2014					
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116042 Preparation	am Elemen 27BB / Miss n Systems (t (Number / ion Training (MTPS)	Name) and	Project (N S750 I Mis Systems	umber/Nan sion Trainin	ne) g and Prepa	aration				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	Cost To Total FY 2019 Complete Cost						
S750: Mission Training and Preparation Systems	17.303	8.013	-	-	-	-	-	-	-	-	-	25.316				
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-						

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

A. Mission Description and Budget Item Justification

This project funds 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

• AC/MC-130J Simulator (MC/AC-130J): Conducts analysis, development, integration, assembly, test and checkout of SOF-unique AC-130J and MC-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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Special Operations Mission Planning Environment (SOMPE)	4.058	-	-
Description: .			
FY 2013 Accomplishments:			

PE 1160427BB: *Mission Training and Preparation Systems (MTPS)* United States Special Operations Command

Exhibit R-2A, RDT&E Project Just	tification: PB	2015 United	States Spe	cial Operatio	ns Comman	d			Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pi PE 11 <i>Prepa</i>	r ogram Eler 60427BB / M ration Systei	n ent (Numb Iission Traini ms (MTPS)	er/Name) ing and	Projec S750 / Systen	t (Number/N Mission Trai ns	ame) ning and Prep	paration
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>lillions)</u>						Γ	FY 2013	FY 2014	FY 2015
Continued required development of requirements, data transfer softwar systems, and automated performan transfer and performance software	software appl e from mission ce models and completing de	cations to a planning sy performan velopment.	ddress SOF stems to SC ce predictior	-unique avia DF helicopter n software.(tion, ground s, airplanes, Continue tes	and maritime and simulat ting of missic	e mission pla or/rehearsal on planning, o	inning data			
Title: MC/AC-130J Simulator (MC/A	AC-130J SIM)								3.955	-	-
FY 2013 Accomplishments: Continued development of SOF uni aircraft.	que training ca	apabilities to	support trai	ning for the	new Missior	Design Seri	es AC/MC-1	30J			
				Accon	nplishments	s/Planned P	rograms Su	btotals	8.013	-	-
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
Line Item • PROC/: Mission Training and Preparation Systems <u>Remarks</u>	<u>FY 2013</u> 38.440	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u> -	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	<u>FY 201</u> -	<u>8 FY 2019</u> -	<u>Cost To</u> <u>Complete</u> -	<u>Total Cost</u> 38.440
D. Acquisition StrategySOMPE: Comprises multiple mis	sion planning	software dev	elopment c	ontracts awa	rded annual	y to develop	ers for each	project et	fort. Acquisi	tion strategie	s depend

• 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.

• AC/MC-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 AC/MC-130J SOF-unique capabilities.

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 I	Jnite	ed S	tates	s Spe	ecial	Ope	eratio	ns (Con	nmai	nd											Dat	e: M	arc	h 20	14		
Appropriation/Budget Activity 0400 / 7							F F F	R-1 I PE 1 Prep	Pro 160 para	grar 0427 htion	n El BB I Sysi	eme I Mis tems	ent (ssioi s (M	(Nur n Tra ITPS	nbei ainin S)	r/ Na i g an	me) d		Pro S75 Sys	ject 50 / stern	t (Ni Miss is	umb sion	er/N Traii	l am ning	ne) g and	d Pre	para	ntion
		FY	201	3		FY 2	2014			FY 2	2015	5		FY	2016	;		FY	2017			FY	2018	3		FY	2019	
	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
Special Operations Mission Planning Environment (SOMPE)				·																								
Software Development																												
Development Support																												
Test & Evaluation																												
MC/AC-130J Simulator																												
AC/MC-130J Simulator Development																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Oper	ations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160427BB <i>I Mission Training and</i> <i>Preparation Systems (MTPS)</i>	Project (N S750 / Mis Systems	umber/Name) sion Training and Preparation

Schedule Details

	Sta	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Special Operations Mission Planning Environment (SOMPE)				
Software Development	1	2013	1	2014
Development Support	1	2013	1	2014
Test & Evaluation	1	2013	1	2014
MC/AC-130J Simulator				1
AC/MC-130J Simulator Development	3	2013	2	2014

Exhibit R-2, RDT&E Budget Iten	n Justificat	i on: PB 201	15 United S	tates Speci	al Operatio	ns Commar	ıd			Date: March 2014					
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I</i> BA 7: <i>Operational Systems Development</i>						R-1 Program Element (Number/Name) PE 1160429BB / AC/MC-130J									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
Total Program Element	44.550	17.809	-	-	-	-	-	-	-	-	-	62.359			
S875: AC/MC-130J	-	-	-	-	-	-	-	-	62.359						

[#] The FY 2015 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, 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.

rogram Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	19.647	-	-	-	-
Current President's Budget	17.809	-	-	-	-
Total Adjustments	-1.838	-	-	-	-
Congressional General Reductions	-1.649	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.026	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	0.433	-			
SBIR/STTR Transfer	-0.596	-			

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spe	ecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160429BB / AC/MC-130J	
FY 2013: Net decrease of \$1.838 million is due to sequestration redu support AC/MC-130J Radio Frequency Countermeasures (\$0.433 mil \$0.596 million).	ictions (-\$1.649 million), congressional rescis lion), and a decrease due to a transfer of fun	sions (-\$0.026 million), reprogramming to ds to Small Business Innovative Research (-
Schedule: None.		
Technical: None		

Exhibit R-2A, RDT&E Project Ju		Date: Mare	ch 2014									
Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project (Number/Name)0400 / 7PE 1160429BB / AC/MC-130JS875 / AC/MC-130J						ne)						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S875: AC/MC-130J	44.550	17.809	-	-	-	-	-	-	-	-	-	62.359
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

[#] The FY 2015 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, 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 Prog	<u>rams (\$ in N</u>	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015
Title: AC/MC-130J									17.809	-	-
FY 2013 Accomplishments: Continued SOF-unique mission improtest efforts. Develop and test aircraft initial design evaluation.	ovements inc modification	luding, but n designs for	ot limited to PSP kit insta	, MC-130J In allation. Upc	ncrement 3 d late interface	evelopment e designs ba	integration, a sed on results	nd of			
				Accom	nplishments	/Planned P	rograms Subt	otals	17.809	-	-
C. Other Program Funding Summar	ry (\$ in Milli	<u>ons)</u>									
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
Line Item	FY 2013	FY 2014	Base	000	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	FY 201	<u>B</u> <u>FY 2019</u>	<u>Complete</u>	Total Cost
• PROC1: AC/MC-130J	26.701	50.300	65.130	-	65.130	68.730	70.916	165.14	4 185.672	2 Continuing	Continuing
PROC2: Precision Strike Package	67.362	93.520	145.929	-	145.929	223.351	245.749	251.45	255.045	5 794.392	1,821.753
<u>Remarks</u>											

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special O	perations Command	Date: March 2014	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 7	PE 1160429BB / AC/MC-130J	S875 / AC/	///C-130J

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 PSP program.

E. Performance Metrics

N/A.

bit R-4, RDT&E Schedule Profile: P	3 2015 Uni	ted Sta	ates	Spec	ial O	pera	tions	Com	nmar	nd										Date:	Mar	ch 20	14		
ropriation/Budget Activity / 7							R-1 Program Element (Number/Name) PE 1160429BB / AC/MC-130J								Project (Number/Name) S875 / AC/MC-130J										
		FY 2	2013		FY 2014		14	4 FY 2015		2015	5 FY 2016		6	FY 2017			FY 2018			FY 2					
		12	3	4	1	2 3	3 4	1	2	3	4	1 2	2 3	4	1	2	3	4	1	2	3 4	1 1	2	3	4
С/МС-130Ј																-									
Development/Test			1												1		- i			1					

hibit R-4A, RDT&E Schedule Details: PB 2015 United States Sp	Date: March 2014			
propriation/Budget Activity 00 / 7	R-1 Program Element (Number/ PE 1160429BB / AC/MC-130J	Name) I	Project (Number/Name) S875 / AC/MC-130J	
	Schedule Details			
	Star	rt	Er	nd
Events by Sub Project	Star Quarter	rt Year	Er Quarter	nd Year
Events by Sub Project AC/MC-130J	Star Quarter	rt Year	Er Quarter	ıd Year

Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20	15 United S	tates Speci	al Operation	ns Comman	d			Date: Marc	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Developmer	est & Evalua nt	ation, Defer	nse-Wide I B	A 7:	R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/ ior Systems	Name)				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	-	14.973	24.661	-	24.661	25.963	15.243	14.376	12.636	Continuing	Continuing
S710: Tactical Systems Development	0.000	-	0.353	1.023	-	1.023	0.975	0.875	0.893	0.910	Continuing	Continuing
S700: Communications Equipment and Electronics Systems	0.000	-	3.264	4.230	-	4.230	5.434	4.287	5.203	5.341	Continuing	Continuing
S725: Tactical Radio Systems	0.000	-	1.699	3.670	-	3.670	5.637	1.707	1.702	1.726	Continuing	Continuing
S385: Soldier Protection and Survival Systems	0.000	-	2.260	2.554	-	2.554	2.929	1.913	1.740	2.255	Continuing	Continuing
S385A: Body Armor and Associated Equipment	0.000	-	1.504	1.973	-	1.973	1.548	0.499	0.495	0.504	Continuing	Continuing
S395: Visual Augmentation, Lasers and Sensor Systems	0.000	-	-	1.709	-	1.709	2.355	0.755	0.005	-	Continuing	Continuing
S800: <i>Munitions Advanced</i> Development	0.000	-	3.386	0.519	-	0.519	0.013	-	-	-	Continuing	Continuing
D476: Military Information Support Operations	0.000	-	2.507	8.983	-	8.983	7.072	5.207	4.338	1.900	Continuing	Continuing

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

Note

Beginning in FY 2014 this Program Element (PE) represents the approved consolidation of Special Operations Tactical Systems (Automation), PE 1160404BB; Special Operations Forces (SOF) Communications Equipment and Electronics System, PE 1160474BB; SOF Tactical Radio Systems, PE 1160476BB; SOF Weapons System, PE 1160477BB; SOF Soldier Protection and Survival Systems and Body Armor and Associated Equipment, PE 1160478BB; SOF Visual Augmentation, Lasers and Sensor Systems, PE 1160479BB; SO Munitions Advanced Development, PE 1160481BB, and SOF Military Information Support Operations (MISO), PE 1160488BB.

A. Mission Description and Budget Item Justification

This program element provides for development, testing and integration of specialized equipment in the areas of automation, communication, radio, weapon, soldier protection and survival, visual augmentation, lasers and sensors, munition and military information support operations (MISO) systems. The efforts within this PE improves SOF warfighting capabilities, by continuing efforts to develop smaller, lighter, more efficient and more robust capabilities. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability while, generally, being conducted in harsh environments for

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sper	cial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160431BB <i>I Warrior Systems</i>	
unspecified periods and in locations requiring small unit autonomy. Commun SOF Commanders and SOF Teams, and provide interoperability with all Serv and allied foreign forces. Efforts relating to soldier protection and survival red Specialized visual augmentation, lasers and sensors will permit small, highly Munition efforts include advanced engineering operational system developme MISO efforts include planned operations to convey selected information and i and ultimately, the behavior of foreign governments, organizations, groups ar	ications efforts will maintain a Command, Control, and Convices, various agencies of the U.S. Government, Air Traffic quirements will improve survivability and mobility of SOF w trained forces to conduct required operations across the error and qualification efforts related to SOF-peculiar munition indicators to foreign audiences to influence their emotions, and individuals.	mmunications (C3) link between Control, commercial agencies hile conducting varied missions. ntire spectrum of conflict. ns and equipment. Additionally, motives, objective reasoning,
Warrior Systems specialized equipment will permit small, highly trained forces by land, sea, and air to conduct unconventional warfare, direct action, or deep sophisticated threat forces. The requirement to operate in denied areas contr to threat forces to ensure mission success.	s to conduct required operations across the entire spectrur p reconnaissance operations in denied areas against insur rolled by a sophisticated threat mandates that SOF system	n of conflict. SOF must infiltrate gent units, terrorists, or highly as remain technologically superior
Tactical Systems Development: This project provides for development, testing, and integration of specialized a forward deployed forces with advanced networking, automated data processin execution, and command and control (C2) of forces.	automation equipment to meet the unique requirements of ng, storage, and display capabilities to support situational	SOF. Tactical systems provide awareness, mission planning and
Communications Equipment and Electronics Systems: This project provides for communication systems to meet emergent requirement warfighting capability without degrading their mobility. Therefore, SOF Comm more efficient and more robust SOF Command, Control, Communications, ar	ents to support SOF. SOF units require communications enunications Equipment and Electronics is a continuing effo nd Computer (C4) capabilities.	equipment that improves their rt to develop smaller, lighter,
Tactical Radio Systems: This project is for development of all SOF tactical radio programs. SOF units degrading their mobility. United States Special Operations Command (USSO to provide SOF with the required capabilities throughout the 21st century. SO Teams involved in overseas contingency operations (OCO) and training exerc Government, Air Traffic Control, commercial agencies, and allied/coalition for (C2) communications between infiltrated/operational elements and higher ech environments.	require radio communication equipment that improves the OCOM) has developed an overall strategy to ensure that Ta OF Tactical Radios provide the critical C3 link between SOI cises. They also provide interoperability with all Services, ces. Tactical Radios rapidly and seamlessly establish and helon headquarters, allowing SOF to operate with any force	ir warfighting capability without actical Radio Systems continue F Commanders and SOF various agencies of the U.S. maintain mobile and fixed e combination in multiple
Weapons Systems: This project provides for next generation system development and pre-planne and weapon accessories to meet the unique requirements of SOF. Current e	ed product improvements (P3I), testing, and integration of s	specialized weapon systems Precision Spiper Rifle and ap

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Speci	ial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	
anti-materiel rifle that will pursue heavy sniper system technology to provide S are currently focusing on muzzle brakes and suppressors and P3I for a variety advances in optical accessories.	OF with precision engagement capabilities. In the weapont of accessories, both individual and crew served, by leve	ons accessories program, efforts raging the latest technological
Soldier Protection and Survival Systems: This project provides for development, testing, and integration of specialized e Specialized equipment will improve survivability and mobility of SOF while con explosive device system improvements and testing to meet continually changing	equipment to meet the unique soldier protection and survive iducting varied missions. Current efforts include, but are ng technology on the battlefield.	val requirements of SOF. not limited to counter-improvised
Body Armor and Associated Equipment: Note: The National Defense Authorization Act of 2010 directed a separate pro This project provides specialized equipment with ballistic protection to meet the equipment improves survivability and load bearing equipment impacting the m Equipment Advanced Requirements (SPEAR) program by supporting body arm development, and testing of a variety of body armor and personal protective equipment	oject (S385A) be created for ballistic protection efforts. e unique soldier protection and survival requirements of S obility of SOF while conducting varied missions. This pro mor plates, soft armor, helmets, and eye protection. It als quipment to meet current ballistic threats that exists on th	SOF. Specialized ballistic bject enhances the SOF Personal so provides for the research, le battlefield.
Visual Augmentation, Lasers and Sensor Systems: This project provides for next generation system development, testing, and inte the unique requirement of SOF. Programs in this area include binocular/mono project also leverages the latest technological advances to ensure state of the	egration of specialized visual augmentation, laser and ser ocular devices and visual augmentation for both crew-serv art equipment is developed and produced.	nsor systems equipment to meet ved and individual systems. The
Munitions Development: This project provides for the advanced engineering, operational system develop Funding supports development of Insensitive Munitions (IM) technology and even Chapter 141, Section 2389 (December 2001). (Including bullet impact, fast co Testing is in accordance with the USSOCOM IM Strategic Plan. Funding also including the development and integration of improved warheads, seeker, guid meet SOF requirements.	opment, and qualification efforts related to SOF-peculiar n valuation, in accordance with statutory requirement set fo ook off, fragment impact, slow cook off, sympathetic deton supports efforts to develop and improve Stand-Off Precis dance navigation and control systems, operational flight so	nunitions and equipment. Irth in U.S. Code, Title 10, Iation, and shaped charge test.) sion Guided Munitions (SOPGM), oftware and missile delivery to
MISO: This project provides for the development, test and integration of MISO equipm foreign audiences to influence their emotions, motives, objective reasoning, an This project funds transformational systems and equipment to conduct the sev product development and design, approval, production/distribution/dissemination	nent. MISO are planned operations to convey selected ir nd ultimately, the behavior of foreign governments, organi ven phase MISO process (planning, targeting audience ar ion, and measures of effectiveness) in support of combata	nformation and indicators to izations, groups, and individuals. nalysis, series development, ant commanders.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Unite	d States Spec	ial Operations Cor	nmand	Date:	March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide Operational Systems Development	e / BA 7:	R-1 Program El PE 1160431BB /	ement (Number/Name) Warrior Systems		
B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	17.970	20.573	-	20.573
Current President's Budget	-	14.973	24.661	-	24.661
Total Adjustments	-	-2.997	4.088	-	4.088
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-2.500			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-0.497			
Other Adjustments	-	-	4.088	-	4.088

Change Summary Explanation

Funding:

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

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

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 l	Jnited State	s Special C	perations (Command				Date: Mar	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progr PE 11604	am Elemen 31BB <i>I Warı</i>	t (Number/ rior Systems	Name)	Project (N S710 / Tac	umber/Nai	ne) ns Develop	ment
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S710: Tactical Systems Development	-	-	0.353	1.023	-	1.023	0.975	0.875	0.893	0.910	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
 A. Mission Description and Bud This project provides for developer (SOF). Specialized automation ec are generally conducted in harsh conduct unconventional warfare, of forces. The requirement to operat ensure mission success. The Tactical Local Area Network storage, and display capabilities t Mission Planning Kits and Field C 	get Item Ja nent, testin juipment w environme direct actio e in deniec (TACLAN o support s computing [ustification g, and integ ill permit sn nts, for unsp n, or deep r l areas cont) provides S ituational a Devices, Co	nall, highly t pration of sp nall, highly t pecified peri reconnaissa trolled by a SOF operati wareness, r palition Loca	ecialized a rained force ods and in nce operati sophisticate onal comm nission plar I Area Netv	utomation e es to condu locations re ons in deni ed threat ma anders and nning and e vork, and F	equipment to ct required o equiring sma ed areas ag andates that forward dep xecution, ar ull Motion Vi	o meet the u operations a all unit autor ainst insurg t SOF syste oloyed force nd command ideo Kits.	inique requ across the e nomy. SOF ent units, te ms remain es advanced d and contro	irements of entire spectr must infiltra errorists, or technologic d networkin ol of forces.	Special Op rum of confl ate by land, highly soph ally superic g, automate The projec	erations Fo ict. These c sea, and ai isticated the r to threat f ed data proc t consists o	prces operations r to reat orces to cessing, f Suites,
B. Accomplishments/Planned P	rograms (S	in Million	<u>s)</u>						F۱	′ 2013 I	FY 2014	FY 2015
Title: TACLAN Suites										-	0.353	1.023
<i>FY 2014 Plans:</i> Continue development, integration thin client capabilities, and cross of <i>FY 2015 Plans:</i> Continues development, integration Integration, and Secure Data At R	n, and testin Iomain solu on, and test est.	ng of evolu utions. ting of evolu	tionary tech utionary tech	nology inse nology inse	ertions such ertions for S	as secure v	wireless, se btotype Des	cure data a ign, Win7	t rest,			
					Accompli	shments/Pl	anned Prog	grams Sub	totals	-	0.353	1.023
C. Other Program Funding Sum Line Item • PROC: Other Items <\$5M	mary (\$ in FY 20	<u>Millions)</u> 0 <u>13 FY 2</u> - 216.	<u>FY 2</u> 2014 <u>E</u> .128 192	2015 FY Base .448	2015 F 0C0 - 1	<mark>Y 2015</mark> <u>Total</u> F 92 448 2	Y 2016	FY 2017 328 585	FY 2018	FY 2019	Cost To Complete	Total Cost

Exhibit R-2A, RDT&E Project Ju	stification: PB	2015 United	States Spec	cial Operatio	ns Comman	d			Date: Ma	rch 2014	
Appropriation/Budget Activity				R-1 Pr	ogram Elen	nent (Numb	er/Name)	Project (N	Number/Na	me)	
0400 / 7				PE 11	60431BB / V	/arrior Syste	ms	S710 / Ta	ctical Syste	ms Develop	ment
C. Other Program Funding Sum	mary (\$ in Milli	ons <u>)</u>									
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> Complete	Total Cost
Remarks											

D. Acquisition Strategy

The TACLAN program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.

E. Performance Metrics

N/A

Exhibit R-4, RDT&E Schedule Profile: PE	3 2015 Unite	ed St	tates	Spe	ecial	Оре	eratio	ons	Con	nma	nd											Dat	e: M	arch	n 20	14		
Appropriation/Budget Activity 0400 / 7								R-1 PE 1	Pro 1160	gra 0431	n El BB /	eme / Wa	ent (arrio	(Nun r Sys	n ber stem	/ Na i s	ne)		Pro S71	ject 10 /	: (N i Tact	umb tical	er/N Sysi	lam tems	e) s De	evelo	pme	ent
		FY	2013	3		FY 2	2014			FY	2015	5		FY 2	2016			FY 2	2017	,		FY	2018	3		FY	2019	9
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
TACLAN SUITES																												
Secure Wireless Capability																												
Secure SOFNet Solutions																												

khibit R-4A, RDT&E Schedule Details: PB 2015 United	States Special Operations Con	nmand		Da	ate: March	2014
ppropriation/Budget Activity 100 / 7	R-1 Prog PE 11604	ram Element (Number 31BB / Warrior System	r/Name) าร	Project (Num S710 / Tactica	Date: March mber/Name cal Systems En Jarter	e) Developmer
	Schedule De	etails				
		Sta	art		Enc	ł
Events by Sub Proje	ect	Quarter	Year	Qua	arter	Year
TACLAN SUITES						
Secure Wireless Capability		2	2014		1	2015
Secure SOFNet Solutions		3	2015		3	2016

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	United States	s Special O	perations C	Command				Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/ ior Systems	Name)	Project (N S700 / Cor Electronics	umber/Nan nmunication Systems	n e) ns Equipme	nt and
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S700: Communications Equipment and Electronics Systems	-	-	3.264	4.230	-	4.230	5.434	4.287	5.203	5.341	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

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

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

• SOF Deployable Node (SDN) is a family of deployable, super high frequency, multi-band, Satellite Communications (SATCOM) systems providing the transport path for high-capacity, voice, data, video tele-conferencing (VTC), and video at all levels of classification. It consists of SDN subprograms, transport for intelligence variants, technology insertions and capital equipment replacement.

• The Special Communications Enterprise program (SPCOM) includes organizations, practices, processes, services, networks, systems and subsystems that manage and provide clandestine exchange of information between elements (field-to-field, field-to-base, base-to-field). This program transitioned from Program Element 1160402BB, Special Operations Advanced Technology Development.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: SDN	-	1.092	2.394
<i>FY 2014 Plans:</i> Continue to develop, test and evaluate next generation systems and components to enhance the SDN family of systems and integrate Evolutionary Technology Insertions (ETI), such as a wide-band SATCOM-on-the-Move ground capability, extension of SOF Information Enterprise services, Advanced Extremely High Frequency SATCOM. <i>FY 2015 Plans:</i>			

Exhibit R-2A, RDT&E Project Jus	tification: PB	2015 United	States Spe	cial Operatio	ns Commar	d			Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 11	rogram Eler 60431BB / V	nent (Numb Varrior Syste	er/Name) ems	Project S700 / Electroi	: (Number/N Communicat nics Systems	ame) tions Equipme s	ent and
B. Accomplishments/Planned Pro	ograms (\$ in I	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015
Assesses, tests and evaluates adva solutions for SDN application. Con Frequency band.	anced antenna ducts testing u	design and sing Global	performance Express. In	e. Conducts tegrates SDI	market rese N into the Ac	arch on mult Ivanced Extr	i-level securi emely High	ty			
Title: SPCOM									-	2.172	1.836
FY 2014 Plans: Begin segment development for the operators.	e SPCOM ente	rprise; deve	lop means a	nd methods	(tradecraft)	to provide ne	ear-term impa	act to			
FY 2015 Plans: Continues segment development for impact to operators.	or the SPCOM	enterprise; c	levelops me	ans and met	thods (trade	craft) to prov	ide near-tern	ו ו			
				Accon	nplishment	s/Planned P	rograms Su	btotals	-	3.264	4.230
C. Other Program Funding Summ	nary (\$ in Milli	ons)									
Line Item • PROC/0204Warrior: Warrior Systems<\$5M Remarks	<u>FY 2013</u> -	<u>FY 2014</u> 216.128	FY 2015 Base 192.448	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> 192.448	<u>FY 2016</u> 204.505	<u>FY 2017</u> 228.585	<u>FY 2018</u> 212.432	<u>FY 2019</u> 2 218.791	Cost To Complete Continuing	<u>Total Cost</u> Continuing

D. Acquisition Strategy

• SDN is a fielded program with ETIs into all variants: heavy, medium, and light, wideband SATCOM-On-The-Move, Mobile SOF Strategic Entry Point, and airborne Intelligence Surveillance Reconnaissance transport variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

• SPCOM is an ETI effort to provide and support multiple field segment kits. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

E. Performance Metrics

N/A

xhibit R-4, RDT&E Schedule Profile: PB 2015 U	Inite	d St	ates	Spe	ecia	l Op	erati	ions	Со	mma	nd												Date	e: M	arch	201	14		
ppropriation/Budget Activity 400 / 7								R-1 PE	Pr 116	ogra 6043 <i>°</i>	m 1B	Elei B / V	me Nai	nt (rrior	Nur r Sy:	nber stem	/Na is	me)		Pro S7 Ele	o jec 00 / ectro	t (Ni Con nics	u mb hmu Sys	er/N nicat tem:	ame ions	e) : Equ	uipm	nent	and
		FY	2013	3		FY	2014	4		FY	20	15			FY	2016	;		FY	2017	7		FY	2018	}		FY 2	2019)
	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 Deployable Node													·																
SOF Deployable Node (SDN)																													
SDN Market Research and Testing																													
Special Communications Enterprise Program																													
Enterprise Segment Services Development																													
Back-End Segment Capabilities Development																													
Field Segment Kits Development																													

hibit R-4A, RDT&E Schedule Details: PB 2015 United States	Special Operations Command		Date: Marc	h 2014
propriation/Budget Activity 00 / 7	R-1 Program Element (Nu PE 1160431BB <i>I Warrior S</i>	mber/Name) /stems	Project (Number/Nam S700 / Communication Electronics Systems	e) s Equipment and
	Schedule Details			
		Start	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
SOF Deployable Node				
SOF Deployable Node (SDN)	2	2014	4	2018
SDN Market Research and Testing	1	2015	4	2019
Special Communications Enterprise Program		I		
Enterprise Segment Services Development	1	2014	4	2019
Back-End Segment Capabilities Development	1	2014	4	2019

Field Segment Kits Development

2014

1

4

2019

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 l	Jnited State	s Special C	Operations	Command				Date: Mar	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Prog PE 11604	ram Eleme 31BB / <i>Wa</i>	nt (Number rrior System	/ Name) s	Project (I S725 / Ta	Number/Na	me) Systems	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S725: Tactical Radio Systems	-	-	1.699	3.670) -	3.67	0 5.637	1.707	1.702	2 1.726	6 Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
[#] The FY 2015 OCO Request wi	l be submitt	ed at a late	er date.		·			·				
A. Mission Description and Bud This project is for development of Commanders and SOF Teams in agencies of the U.S. Government and Blue Force Tracking, rapidly elements and higher echelon hea	Iget Item Ju f all SOF tao volved in ov t, Air Traffic and seamle adguarters, a	ustification ctical radio verseas cor Control, co essly establ allowing SC	programs. htingency op mmercial a ish and mai DF to operat	Tactical Ra perations (C gencies, ar ntain mobil e with any	idios provic DCO) and t nd allied for e and fixed force comb	le the critica raining exe reign forces Command pination in n	al Command rcises. They . Tactical R and Contro nultiple envir	, Control, C / also provic adios, which l (C2) commonts.	ommunicat le interope n includes (nunications	ions (C3) lir ability with SOF Tactica between int	nk between all Services Il Communie filtrated/ope	SOF , various cations, rational
B. Accomplishments/Planned P	rograms (\$	in Million	s)	5			·		F	Y 2013	FY 2014	FY 2015
Title: SOF Tactical Communication	ons (STC)		-+							-	1.699	1.672
FY 2014 Plans: Continue developing and testing l	DoD on-orbi	t capacity i	n order to e	nhance C2	capabilitie	S.						
FY 2015 Plans: Develops and tests new capability	/ in Tactical	Radio equ	ipment.									
<i>Title:</i> Blue Force Tracking (BFT)										-	-	1.998
FY 2015 Plans: This program is a FY 2015 new s	tart. Develo	ops and tes	ts new capa	bility in Blu	ie Force Tr	acking equi	pment.					
					Accompl	ishments/F	Planned Pro	grams Sub	totals	-	1.699	3.670
C. Other Program Funding Sum	mary (\$ in	<u>Millions)</u>	FY 2	2015 FY	<u>′ 2015</u> F	Y 2015					<u>Cost To</u>	
Line Item • PROC 1: Warrior Systems<\$5M <u>Remarks</u>	<u>FY 20</u> //	<u>13</u> <u>FY 2</u> - 216.	128 192	<u>3ase</u> .448	<u>0C0</u> - 1	<u>Total</u> 92.448	FY 2016 204.505	<u>FY 2017</u> 228.585	<u>FY 2018</u> 212.432	<u>FY 2019</u> 218.791	Complete Continuing	Total Cost Continuing
D. Acquisition Strategy STC is a Commercial-Off-The-Sh leveraged for required certificatio	elf/non-dev ns, function	elopment it al and oper	em program ational tests	n with evolu s, and acce	utionary tec eptance sup	hnology ins port.	ertions (ETI	s). Comme	rcial and go	overnment a	agency sour	ces will be
PE 1160431BB: Warrior Systems				UN	ICLASSI	FIED						F 444

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

BFT is a fielded program with ETIs leveraging commercial and other government agency sources for required certifications, functional and operational tests, and technology updates.

E. Performance Metrics

N/A.

Jnite	ed St	ates	Spe	ecial	Ope	erati	ons	Con	nm	and											Dat	e: M	arch	20 ו	14		
							R-1 PE	Pro 1160	ogra 043	am E 31BB	lem / Wa	ent arric	(Nu or Sy	mbe /ste/	r/Na ns	me))	Pr S7	ojec 25 /	t (N Tac	umb tical	er/N Rad	lam lio S	e) yste	ms		
	FY	2013			FY	2014	1		FY	′ 201	5		FY	201	6		FY	201	7		FY	2018	3		FY 2	2019)
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
		FY 1 2	FY 2013	FY 2013 1 2 3 4	Inited States Special	Inited States Special Ope	FY 2013 FY 2014 1 2 3 4 1 2 3	FY 2013 FY 2014 1 2 3 4 1 2 3 4	FY 2013 FY 2014 1 2 3 4 1 2 3 4 1	FY 2013 FY 2014 FY 2014 FY 2014 1 2 3 4 1 2 3 4 1 2	Fried States Special Operations Command R-1 Program E PE 1160431BB FY 2013 FY 2014 FY 201 1 2 3 4 1 2 3 - - - - - - - - - - - - - - - -	Inited States Special Operations Command R-1 Program Elem PE 1160431BB / W FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 4 - - - - - - - - - - - - - - - - - - - - - - -	Inited States Special Operations Command R-1 Program Element PE 1160431BB / Warric FY 2014 FY 2015 1 2 3 4 1 2 3 4 1 - - - - - - - - - - - - - - - - - -	Fried States Special Operations Command R-1 Program Element (Nu PE 1160431BB / Warrior S) FY 2013 FY 2014 FY 2015 FY 1 2 3 4 1 2 3 4 1 2	Fried States Special Operations Command R-1 Program Element (Number PE 1160431BB / Warrior System FY 2013 FY 2014 FY 2015 FY 201 1 2 3 4 1 2 3 4 1 2 3 -	Inited States Special Operations Command R-1 Program Element (Number/Na PE 1160431BB / Warrior Systems FY 2013 FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 4	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 4 1	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 1 2 3 4 1 2 3 4 1 2	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Program S7 FY 2013 FY 2014 FY 2015 FY 2016 FY 2011 1 2 3 4 1 2 3 4 1 2 3	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project S725 / FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 <td>Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (N S725 / Tac FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 <</td> <td>Inited States Special Operations Command Dat R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/States) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 3 4 1 2 Image: Special Operations Command FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 Image: Special Operations Command FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 Image: Special Operation Systems <td< td=""><td>Inited States Special Operations Command Date: M R-1 Program Element (Number/Name) Project (Number/N PE 1160431BB / Warrior Systems S725 / Tactical Rad FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 </td><td>Inited States Special Operations Command Date: March R-1 Program Element (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio S FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 <td< td=""><td>Date: March 201 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Syste FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3</td><td>Date: March 2014 Period States Special Operations Command Date: March 2014 Project (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 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 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 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3</td><td>Date: March 2014 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4 1 2</td></td<></td></td<></td>	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (N S725 / Tac FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 <	Inited States Special Operations Command Dat R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/States) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 3 4 1 2 Image: Special Operations Command FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 Image: Special Operations Command FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 1 2 3 4 1 2 3 4 1 2 Image: Special Operation Systems Image: Special Operation Systems <td< td=""><td>Inited States Special Operations Command Date: M R-1 Program Element (Number/Name) Project (Number/N PE 1160431BB / Warrior Systems S725 / Tactical Rad FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 </td><td>Inited States Special Operations Command Date: March R-1 Program Element (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio S FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 <td< td=""><td>Date: March 201 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Syste FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3</td><td>Date: March 2014 Period States Special Operations Command Date: March 2014 Project (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 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 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 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3</td><td>Date: March 2014 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4 1 2</td></td<></td></td<>	Inited States Special Operations Command Date: M R-1 Program Element (Number/Name) Project (Number/N PE 1160431BB / Warrior Systems S725 / Tactical Rad FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3	Inited States Special Operations Command Date: March R-1 Program Element (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio S FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 <td< td=""><td>Date: March 201 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Syste FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3</td><td>Date: March 2014 Period States Special Operations Command Date: March 2014 Project (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 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 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 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3</td><td>Date: March 2014 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4 1 2</td></td<>	Date: March 201 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Syste FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3	Date: March 2014 Period States Special Operations Command Date: March 2014 Project (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 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 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 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3	Date: March 2014 R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems Project (Number/Name) S725 / Tactical Radio Systems FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4 1 2

nibit R-4A, RDT&E Schedule Details: PB 2015 United States Specia	al Operations Command			Di	ate: March	2014
propriation/Budget Activity 00 / 7	R-1 Program Ele PE 1160431BB /	ment (Number Warrior System	r/ Name) IS	Project (Num S725 / Tactica	nber/Name al Radio Sy	e) /stems
	Schedule Details					
		Sta	art		End	t
Events by Sub Project		Quarter	Year	Qua	arter	Year
SOF Tactical Radios						
SOF Tactical Communications (STC) Radio Development		2	2014		4	2018
Develops New STC Capability		2	2015		4	2019
Blue Force Tracking		L		1	J	
				I		

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command Date: March 2014												
Appropriation/Budget Activity 0400 / 7	R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/ ior Systems	Project (N S385 / Solo Systems	lumber/Name) Idier Protection and Survival							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S385: Soldier Protection and Survival Systems	-	-	2.260	2.554	-	2.554	2.929	1.913	1.740	2.255	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

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

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

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

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

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

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special C		Date: March 2014						
Appropriation/Budget Activity 0400 / 7	Project S385 Syster	Project (Number/Name) S385 I Soldier Protection and Survival Systems						
B. Accomplishments/Planned Programs (\$ in Millions)		ſ	FY 2013	FY 2014	FY 2015			
Continue profile refinement to support signature management, reactive fiber te research and development solicitation for an advanced maritime communication and development of lightweight, high performance textiles for enhanced materic Continue on-going prototype testing and research on load effects for survivabile	sting and material research for uniforms. Con ons system material solution. Continue testing al solutions that support SPEAR requirements ity and soldier load analysis.	tinue						
FY 2015 Plans: Continues profile refinement to support signature management and material redevelopment and a solicitation for a land communications material solution. Con high performance textiles for enhanced material solutions that support SPEAR testing. Address emerging SOF-unique requirements as SOF transitions from H global focus.	search for uniforms. Initiates research and ontinues testing and development of lightweigl requirements. Continues on-going prototype neavy deployments in Iraq and Afghanistan to	nt, a						
Title: TCCC			-	0.333	0.560			
FY 2014 Plans: Provide for test support to include program management, market surveys, test engineering in direct support of the CASEVAC program. Develops a solicitatio CASEVAC set. Support system prototype development, testing and research of battlefield losses, with the goal of transitioning these medical technology items	article acquisition, test and evaluation and sys n for the contract re-compete for the TCCC on advanced tactical medical equipment to less to a program of record.	stems sen						
<i>FY 2015 Plans:</i> Provides for test support to include program management, market surveys, test and systems engineering in direct support of the CASEVAC program. Continu miniaturization of TCCC CASEVAC components. Supports system prototype d tactical medical equipment to lessen battlefield losses, with the goal of transition of record.	at article acquisition, test and evaluation e evaluation, airworthiness certification and evelopment, testing and research on advance oning these medical technology items to a prog	d ıram						
Title: RC-IED			-	1.028	1.077			
FY 2014 Plans: Provide for National Assessment Group test support to the Counter RC-IED provent evaluation, test article acquisition, and market research of the RC-IED program ensuring the ability to accurately test against current and emerging threat systemet and energing threat systemet.	ogram. Support system engineering, test and ns. Maintains range effectiveness and currence ems.	у,						
FY 2015 Plans:								

Exhibit R-2A, RDT&E Project Just	xhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command												
Appropriation/Budget Activity 0400 / 7				R-1 P PE 11	rogram Eler 60431BB / V	ment (Numb Narrior Syste	:t (Number/Name) Soldier Protection and Survival ns						
B. Accomplishments/Planned Pro	<u>grams (\$ in I</u>	<u>Millions)</u>						[FY 2013	FY 2014	FY 2015		
Provides for National Assessment G evaluation, test article acquisition, a ensuring the ability to accurately tes	Froup test sup nd market res t against curr	port to the C search of the ent and eme	Counter RC-I RC-IED pro erging threat	ED program ograms. Mai systems.	i. Supports s intains range	system engir e effectivenes	neering, test ss and currer	and ncy,					
	-	2.260	2.554										
C. Other Program Funding Summ	arv (\$ in Milli	ions)							i	I			
	<u>ury (</u>		<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					Cost To			
Line Item • PROC1: Warrior Systems<\$5M	<u>FY 2013</u>	<u>FY 2014</u> 216.128	<u>Base</u> 192.448	<u>000</u>	<u>Total</u> 192.448	<u>FY 2016</u> 204.505	<u>FY 2017</u> 228.585	<u>FY 201</u> 212.43	<u>FY 2019</u> 32 218.79	 <u>Complete</u> Continuing 	Total Cost Continuing		
Remarks										-	-		
D. Acquisition Strategy N/A E. Performance Metrics N/A													

ibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command													Date: March 2014														
ppropriation/Budget Activity 400 / 7							R-1 Program Element (Number/Name) PE 1160431BB / Warrior SystemsProject (S385 / So Systems								: (Nı Sold s	Number/Name) oldier Protection and Survival											
	F	Y 20	13		F	Y 20	14		FY 2	2015		F	FY 2	2016			FY 2	2017	,		FY 2	2018			FY	2019	
	1	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
SPEAR-Protective Combat Uniform (PCU)																											
PCU Testing/Development																											
SPEAR-Signature Management																											
Signature Management Profile Characterization																											
SPEAR-Modular Glove System																											
Development and Test																											
SPEAR-MICH Comms																											
Market Research/Interoperability Assessment																											
SPEAR-Maritime Comms																											
Various tests																											
SPEAR-Load Carriage System/Vests and Backpacks																											
Material Research and Prototype testing																											
Radio Controlled-Improvised Explosive Device																											
National Assessment Group Test Support																											
Tactical Combat Casualty Care Evacuation Kits -CASEVAC																											
Prototype development testing and Airworthiness Certification																											

hibit R-4A, RDT&E Schedule Details: PB 2015 United Sta	l		D	ate: March	2014		
opropriation/Budget Activity 00 / 7	R-1 Program E PE 1160431BB	ement (Number I Warrior System	Project (Nur S385 / Soldie Systems	(Number/Name) oldier Protection and Survival			
	Schedule Details						
		Sta	nt	End			
Events by Sub Project		Quarter	Year	Qu	arter	Year	
SPEAR-Protective Combat Uniform (PCU)							
PCU Testing/Development		2	2014		3	2019	
SPEAR-Signature Management		L					
Signature Management Profile Characterization		2	2014		2	2019	
SPEAR-Modular Glove System		1					
Development and Test		2	2014		2	2019	
SPEAR-MICH Comms		L					
Market Research/Interoperability Assessment		2	2014		2	2019	
SPEAR-Maritime Comms		L		I			

SPEAR-Maritime Comms				
Various tests	1	2014	3	2019
SPEAR-Load Carriage System/Vests and Backpacks				
Material Research and Prototype testing	3	2014	3	2019
Radio Controlled-Improvised Explosive Device				
National Assessment Group Test Support	1	2014	4	2019
Tactical Combat Casualty Care Evacuation Kits -CASEVAC				
Prototype development testing and Airworthiness Certification	1	2014	2	2019

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	Jnited State	s Special C	Operations C	Command				Date: Mar	ch 2014			
Appropriation/Budget Activity 0400 / 7					R-1 Progr PE 116043	am Elemen 31BB / Warr	t (Number/ fior Systems	Project (N S385A I Bo Equipment	oject (Number/Name) 85A I Body Armor and Associated uipment					
COST (\$ in Millions)	PriorFYYearsFY 2013FY 2014B				FY 2015 OCO [#]	2015 FY 2015 CO # Total FY 2016 FY 2017			FY 2018 FY 2019		Cost To Complete	Total Cost		
S385A: Body Armor and Associated Equipment	-	-	1.504	1.973	_	1.973	1.548	0.499	0.495	0.504	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				
 * The FY 2015 OCO Request will be submitted at a later date. A. Mission Description and Budget Item Justification This project provides specialized equipment to meet the unique soldier protection and survival requirements of SOF, to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Operators; and Marine Forces Special Operations Command. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. This project enhances the SOF Personal Equipment Advanced Requirement (SPEAR) program by supporting body armor plates, soft armor, helmets, and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment. Creation of a separate project for ballistic protection efforts was directed in the National Defense Authorization Act of 2010. 														
B. Accomplishments/Planned Planned Pla	rograms (S	in Million	<u>s)</u>						FY	2013 I	FY 2014	FY 2015		
<i>Title:</i> SPEAR-Ballistic Protection										-	1.504	1.973		
FY 2014 Plans: Continue foreign ammunition testin effects studies to develop a helme material research and testing to in and optical testing of photochromi Research and testing of soldier wo	nor c J.													
FY 2015 Plans: Continues foreign ammunition test effects studies to develop a helme worn sensors. Continues lightweig evaluation of transparent armor pr lenses. Continues work on anti-fo from heavy deployments in Iraq ar	or er itions													
					Accomplis	shments/Pl	anned Prog	grams Sub	totals	-	1.504	1.973		
ication: PB			Date: Ma	rch 2014										
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			R-1 Pr PE 11	rogram Eler 60431BB / V	n ent (Numb Varrior Syste	er/Name) Ims	Project (I S385A / E Equipmer	Number/Na Body Armor at	me) and Associa	ated				
ry (\$ in Milli	<u>ons)</u>													
<u>FY 2013</u> -	<u>FY 2014</u> 216.128	<u>FY 2015</u> <u>Base</u> 192.448	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> 192.448	<u>FY 2016</u> 204.505	<u>FY 2017</u> 228.585	<u>FY 2018</u> 212.432	<u>FY 2019</u> 218.791	Cost To Complete Continuing	Total Cost Continuing				
	ication: PB ry (\$ in Milli FY 2013 -	ication: PB 2015 United ry (\$ in Millions) <u>FY 2013 FY 2014</u> - 216.128	ry (\$ in Millions) FY 2013 FY 2014 Base - 216.128 192.448	ication: PB 2015 United States Special Operatio R-1 Pi PE 11 ry (\$ in Millions) FY 2013 FY 2014 Base OCO - 216.128 192.448 -	ication: PB 2015 United States Special Operations Comman R-1 Program Eler PE 1160431BB / V ry (\$ in Millions) FY 2015 FY 2015 FY 2015 FY 2013 FY 2014 Base OCO Total - 216.128 192.448 - 192.448	ication: PB 2015 United States Special Operations Command R-1 Program Element (Numb PE 1160431BB / Warrior Syste ry (\$ in Millions) FY 2013 FY 2014 Base OCO Total FY 2016 - 216.128 192.448 - 192.448 204.505	ication: PB 2015 United States Special Operations Command R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems ry (\$ in Millions) FY 2013 FY 2014 Base OCO Total FY 2016 FY 2017 - 216.128 192.448 - 192.448 204.505 228.585	ication: PB 2015 United States Special Operations Command PE 1160431BB / Warrior Systems Project (I S385A / E Equipmer ry (\$ in Millions) FY 2015 FY 2015 FY 2015 FY 2013 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 - 216.128 192.448 - 192.448 204.505 228.585 212.432	ication: PB 2015 United States Special Operations Command Date: Ma R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems SS A / Body Armor Equipment ry (\$ in Millions) FY 2015 FY 2015 FY 2015 FY 2013 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 FY 2019 - 216.128 192.448 - 192.448 204.505 228.585 212.432 218.791	Ideation: PB 2015 United States Special Operations Command Date: March 2014 P-I Project (Number/Name) Project (Number/Name) Project (Number/Name) PE 1160431BB / Warrior Systems S385A / Body Armor and Associal Equipment ry (\$ in Millions) FY 2015 FY 2015 FY 2017 FY 2013 FY 2015 FY 2015 Cost To FY 2013 FY 2014 Base OCO - 216.128 192.448 - - 216.128 192.448 -				

xhibit R-4, RDT&E Schedule Profile: PB 207	15 Uni	ted S	tates	s Spe	ecia	l Op	eratio	ons (Con	nma	nd											D	ate:	Ма	irch	201	14		
opropriation/Budget Activity 00 / 7	propriation/Budget Activity 00 / 7									gra 0431	n El BB /	eme / Wa	ent arric	(Nu or Sy	mbe ⁄ster	er/Na ns	ame)	Pi Si Ed	r oje 385 quip	ect (I A / E omer	Nun Body ht	n be ı y Arı	r/Na mor	ame and	e) d As	soci	ated	1
	Γ	FY	201	3		FY	2014	1		FY	2015	5		FY	201	6		FY	′ 20 1	17		F	Y 20)18			FY 2	2019	
		12	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2 3	; ,	4 [·]	1	2	3	4	1	2	3	4
SOF Personal Equipment Advanced Requirements (SPEAR)-Body Armor		!																											
Body Armor Material Testing																													
Body Armor Development																													
SPEAR Eye Protection																													
Transparent Armor Development																													
SPEAR Ballistic																													
Foreign Ammunition Testing																													
Threat Validation																													
SPEAR-Helmet																													
Market Lightweight Materials Testing																													

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

Schedule Details

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

Exhibit R-2A, RDT&E Project Ju	bit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command													
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/ ior Systems	Name)	Project (N S395 I Visu Sensor Sys	umber/Nan Jal Augmen Stems	ne) tation, Lase	rs and		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
S395: Visual Augmentation, Lasers and Sensor Systems	-	-	-	1.709	-	1.709	2.355	0.755	0.005	-	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

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

A. Mission Description and Budget Item Justification

This project provides for development, testing, integration and training of specialized visual augmentation, laser and sensor system equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized equipment will permit small, highly trained forces to conduct required operations within harsh environments, for unspecified periods and in locations requiring small unit autonomy across the globe in support of operations. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorist, or highly sophisticated threat mandates that SOF systems remain technologically superior to enemy threats to ensure mission success.

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

These Visual Augmentation and Situational Awareness (SA) systems will provide an all-weather, low-light capability for SOF personnel by employing a block approach (Evolutionary Acquisition). This Block approach produces a family of VAS systems which will utilize a variety of sensor technologies to satisfy the capabilities defined by the individual Block requirement. Some examples of the types of sensor technologies that these systems may utilize include: Image Intensification, Thermal, Short Wave Infrared (SWIR) and/or multi-spectral. To date the Target Engagement Portfolio has utilized several Block system approaches that have been fielded by the VAS program. These VAS programs will be a developmental effort to produce and field the next generation systems for SOF personnel to maintain the edge and reduce weight while improving the operator's ability to make military decisions with improved SA. SOF Improvements include the following: (1) Ability to detect, classify and engage targets without the use of an infrared illuminator; (2) ability to determine wind speed; (3) ability to observe bullet trace; (4) size and weight of the equipment hampers mobility and agility (weight reduction). Sensor or Data Fusion combines or integrates the outputs from multiple sensors operating in different spectra into a single image while presenting the data in a useful manner to the operator and protecting the goggle from laser damage. Digital Signal Enhancement stores and processes an image to sharpen, expand, or filter out unwanted information, thereby improving resolution and enhancing an image's utility to operators.

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

Exhibit R-2A, RDT&E Project Justif	ication: PB	2015 United	States Spe	cial Operatio	ons Commar	ıd			Date: N	larch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 11	r ogram Eler 60431BB / V	nent (Numb Varrior Syste	e r/Name) ems	Projec S395 / Sensor	t (Number/I Visual Augr Systems	Name) nentation, Las	sers and
Visual Augmentation Systems Weap the latest technological advances in or close quarters battle sights. Miniatur technology to improve combat effect Illuminator Aiming Laser hardening to and simulation efforts executed by N augmentation devices. These acces	ons Accesso optional acce e Day-Night veness for a o withstand t ational Labs sories great	ories (VASW. essories (up Sight for cre Il crew-serve he live-fire s Also, comp y improve th	A). This pro to 30 differe ew-served we ed weapon s hock profiles betitively awa e combat ef	gram effort e nt functions eapons enha systems. De for the Com ard RDT&E of fectiveness of	enhances all / capabilities ances all SO velopment e nbat Assault contracts to of the weapo	SOF weapo s) such as co F Weapons fforts include Rifle, VAS a select vendo on systems a	ons, both indi ombat optics, by leveraging test and ev and clandestions in order to and the surviv	vidual and aiming la g existing aluation o ne pointe o develop vability of	d crew serve ser modules image inten f the Advan r. Leveragir clandestine the SOF op	ed, by leverag s, visible lights sification and ced Target Po ng extensive r operator-borr erator.	ing s, and thermal pinter nodeling ne visual
B. Accomplishments/Planned Prog	rams (\$ in N	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015
Title: Visual Augmentation Systems									-	-	1.709
<i>FY 2015 Plans:</i> Continues the development of the ne sharing of data/images and target acc	xt generatior quisition.	n of operator	-born visual	augmentatic	on devices to	o improve site	uational awa	reness,			
				Accon	nplishment	s/Planned P	rograms Su	btotals	-	-	1.709
C. Other Program Funding Summa	rv (\$ in Milli	ons)									
• PROC/1: Warrior Systems<\$5M Remarks	<u>FY 2013</u>	FY 2014 216.128	FY 2015 Base 192.448	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> 192.448	<u>FY 2016</u> 204.505	<u>FY 2017</u> 228.585	<u>FY 201</u> 212.43	B <u>FY 201</u> 2 218.79	Cost To <u>Complete</u> 1 Continuing	Total Cost Continuing

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

E. Performance Metrics

N/A

	istification	: PB 2015 L	Inited States	s Special C	perations C	Command				Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/ ior Systems	Name)	Project (N S800 / Mu	umber/Na	me) ranced Deve	lopment
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S800: Munitions Advanced Development	-	-	3.386	0.519	-	0.519	0.013	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Buc This project funds advanced eng Non-Standard Materiel (NSM). T which includes bullet impact, sym Operations IM Testing Plan. Stand-Off Precision Guided Muni	Iget Item J i ineering, op his progran pathetic de	ustification erational sy n provides fe tonation, fa GM) provide	stem develo or Insensitiv st cook off, s	opment and e Munitions slow cook o velopment	d qualificatio s (IM) techn off and shap and improv	on efforts rel ology devel oed charge t rement of S0	ated to spe opment and est. Testing	cialized mu l evaluation g is in acco SOPGMs.	nitions and s that allow dance with	equipment vs SOF mu the United	nitions to pa I States Spe	ss testing cial
B. Accomplishments/Planned P	Programs (in Million	<u>s)</u>						F۱	2013	FY 2014	FY 2015
Title: NSM										-	0.453	0.519
FY 2014 Plans: Conduct proof of principle and IM	testing on v	various mur	itions. Con	tinue full so	ale testing		.					
Standard 2105C (Department of I 2006).	Defense Te	st and Meth	od Standard	l: Hazard	Assessment	to satisfy sa t Test for No	on-Nuclear	ments in M Munition, 26	ilitary Sep			
Standard 2105C (Department of I 2006). <i>FY 2015 Plans:</i> Conducts proof of principle and IN Military Standard 2105C (Departr 26 Sep 2006).	Defense Ter M testing on nent of Defe	st and Meth various mu ense Test al	nitions. Co	l: Hazard / ntinues full Standard: H	scale testing scale testin	to satisfy sa t Test for No ng to satisfy essment Te	on-Nuclear safety requ st for Non-N	ments in M Munition, 26 irements in Juclear Mur	ilitary Sep nition,			
Standard 2105C (Department of I 2006). <i>FY 2015 Plans:</i> Conducts proof of principle and IN Military Standard 2105C (Departr 26 Sep 2006). <i>Title:</i> SOPGM	Defense Ter	st and Meth various mu ense Test a	nitions. Co	1: Hazard / ntinues full Standard: I	scale testing scale testin	to satisfy sa t Test for No ng to satisfy essment Te	safety require safety requ	ments in M Munition, 26 irements in luclear Mur	ilitary S Sep hition,		2.933	
Standard 2105C (Department of I 2006). FY 2015 Plans: Conducts proof of principle and IN Military Standard 2105C (Departr 26 Sep 2006). Title: SOPGM FY 2014 Plans: Begin efforts to integrate target se evaluates first pass lethality perfortests.	Defense Te M testing on nent of Defe eeker, warh rmance imp	st and Meth various mu ense Test a ead and gui provements	nitions. Co nd Method S dance syste	d: Hazard / ntinues full Standard: H em technolo y and test r	scale testin scale testin Hazard Asse	to satisfy sa t Test for No ng to satisfy essment Te es for precis round, captiv	itety require on-Nuclear safety requ st for Non-N ion guided ve carry and	ments in M Munition, 26 irements in Juclear Mur munitions, a I live-fire flig	ilitary Sep nition, and ght		2.933	-

Exhibit R-2A, RDT&E Project Justi	fication: PB	2015 United	States Spec	cial Operatio	ns Comman	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 110	ogram Elen 60431BB / V	n ent (Numb Varrior Syste	er/Name) ems	Project (1 S800 / <i>M</i> u	Number/Na	i me) vanced Deve	elopment
C. Other Program Funding Summa	ry (\$ in Milli	ons <u>)</u>									
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
Line Item	FY 2013	<u>FY 2014</u>	Base	000	Total	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	Total Cost
 PROC1: Warrior Systems<\$5M 	-	216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing
Remarks											

D. Acquisition Strategy

NSM: Munitions and packaging redesign shall take place within government laboratories, as well as in industry, depending on the munitions. IM solutions shall be tested on a small scale for proof of principle.

SOPGM: Using incremental approach to increase munitions performance, leverage industry's Internal Research and Development innovative efforts and existing and new contracts to improve warhead, seeker, guidance navigation and control system, and missile delivery packaging. Solutions will be tested at comparative demonstrations and/or flight test events.

E. Performance Metrics

N/A

<mark>khibit R-4</mark> , RDT&E Schedule Profile: PB 2015 Լ	Jnite	d S	tates	s Sp	ecia	al O	pera	tion	s Co	mm	and	b											Da	te: N	larc	ch 2	2014	4		
ppropriation/Budget Activity								R- Pe	- 1 Pr E 11	ogr 6043	am 31B	Ele BB /	e me Wa	nt (rrio	(Nun r Sys	n be i sterr	r∕Na ≀s	me))	Pro S8	ojec 00 /	t (N Mu	um nitio	ber/l ons A	Nan Idva	ne) ance	ed L	Deve	elopr	ment
		FY	201	3		F١	í 20 1	4		F١	1 20)15			FY 2	2016	5		FY	201	7		FY	201	8		F	Y 2	019	
	1	2	3	4	1	2	2 3	2	4 1	2	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		1	2	3	4
Non-Standard Materiel (NSM)							÷																		·					
Purchase Test Articles																														
NSM																														
Evaluation of Insensitive Munitions (IM) test articles																														
NSM-Insensitive Munitions (IM)																														
IM Testing																														
Stand-Off Precision Guided Munitions																														
Evaluate Lethality Upgrades																														

xhibit R-4A, RDT&E Schedule Details: PB 2015 United States Sp	pecial Operations Comma	nd		Date: M	arch 2014
ppropriation/Budget Activity 400 / 7	R-1 Program PE 1160431B	Element (Numbe B / Warrior Syster	e r/Name) ns	Project (Number/N S800 / Munitions Ad	ame) dvanced Development
	Schedule Detail	S			
		St	art		End
Events by Sub Project		Quarter	Year	Quarter	Year
Non-Standard Materiel (NSM)					
Purchase Test Articles		2	2014	2	2015
NSM					
Evaluation of Insensitive Munitions (IM) test articles		2	2014	3	2016
NSM-Insensitive Munitions (IM)			1		'
IM Testing		2	2014	4	2016
Stand-Off Precision Guided Munitions				· · · · · · · · · · · · · · · · · · ·	,
Evaluate Lethality Upgrades		2	2014	2	2016

Exhibit R-2A, RDT&E Project Ju	stification:	: PB 2015 L	Inited States	s Special O	perations C	Command				Date: Marc	h 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116043	am Elemen 31BB / Warr	t (Number/l ior Systems	Name)	Project (N D476 / Milit Operations	u mber/Nan tary Informa	tion Suppor	rt
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2018	FY 2019	Cost To Complete	Total Cost	
D476: Military Information Support Operations	-	-	2.507	8.983	-	8.983	7.072	5.207	4.338	1.900	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

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

• Prior to FY 2015, the MISO Broadcast Systems (MISOB) consisted of the Media Production Center (MPC) Family of Systems (FoS); Product Distribution System (PDS); Fly Away Broadcast System (FABS); and the Long Range Broadcast System (LRBS). Starting in FY15 the MISO Broadcast System will be split into these individual programs of records. These systems provide fixed or deployable technologies that fulfill the requirements of the MISO seven phase processes in support to theater commanders. This project is comprised of several interfacing systems that can stand alone or inter-operate with other MISO systems as determined by mission requirements and includes the fixed site MPC; a light and medium media production capability; a PDS that provides a reach back link to systems worldwide; the FABS is a transit case fly-away broadcast systems that consists of a combination of amplitude modulation (AM), frequency modulation (FM), shortwave (SW), and television (TV) transmitters, and radio/TV production systems; and the LRBS, an unmanned, long-loiter broadcast system with the ability to provide AM, FM, SW, TV UHF/VHF, and cellular MISO products to foreign target audiences in permissive, semi-permissive, and denied environments.

• Product Distribution System (PDS) provides the satellite communications (SATCOM) transport path for the worldwide Military Information Support Operations (MISO) architecture. PDS consists of four variants that are used at different levels of command from the Media Operations Complex (MOC) to the Tactical MISO Teams in order to link MISO planners with review/approval authorities, production facilities, and dissemination elements.

• Long Range Broadcast System (LRBS) is a family of broadcast systems intended to be integrated to multiple unmanned, long-loiter aerial systems with the capability of broadcasting in AM, FM, SW,TV, Very High Frequency (VHF), TV Ultra High Frequency (UHF) and cellular (Short Message Service, Multi-Media Messaging Service, and Voice). This system provides the capability of broadcasting MISO messages via multiple mediums into denied foreign areas.

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

Exhibit R-2A, RDT&E Project Justification:	PB 2015 United	d States Spe	cial Operatio	ons Commar	ld			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7			R-1 P PE 11	rogram Eler 60431BB / V	nent (Numb Varrior Syste	er/Name) ems	Project (N D476 / Mi Operation	lumber/Na litary Inform s	nme) nation Suppo	ort
B. Accomplishments/Planned Programs (\$	<u>in Millions)</u>						F	(2013	FY 2014	FY 2015
Continue primary hardware development, sys and evaluate new systems and components t enhance production supporting MISO target a	tems engineerin o enhance MIS udience assess	ng, and test a O product. In sment and me	and evaluation tegrate and evaluation tegrate and easures of e	on on produc disseminate effectiveness	t distribution new analytic requirement	technology. al software to s.	Test pols to			
FY 2015 Plans: Continues primary hardware development, sy and evaluates new systems and components tools to enhance production supporting MISO	stems engineer to enhance MIS target audience	ing, and test SO product. I e assessmen	and evaluat ntegrates ar it and measu	tion on produ nd dissemina ures of effect	ct distributio tes new ana iveness requ	n technology lytical softwar iirements.	Tests e			
Title: LRBS (Previously funded under MISOB)							-	-	5.504
FY 2015 Plans: Begins primary hardware development, syste power, and antenna technologies.	ns engineering	, and test and	d evaluation	on pod-base	ed FM and co	ellular broadc	ast,			
Title: PDS (Previously funded under MISOB)								-	-	1.199
FY 2015 Plans: Continues hardware development, systems e technologies integrating audio/visual capabilit	ngineering, and les for enhance	test and eva d distribution	luation on n and deliver	ew PDS / SI y of MISO pr)N-P compo oducts.	nents and				
			Accor	mplishment	s/Planned P	rograms Sul	ototals	-	2.507	8.983
C. Other Program Funding Summary (\$ in I	<u>//illions)</u> 1 <u>3 FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	FY 2019	<u>Cost To</u> Complete	Total Cost
• PROC1: OTHER ITEMS <\$5M	- 216.128	192.448	-	192.448	204.505	228.585	212.432	218.791	Continuing	Continuing
<u>Remarks</u>										
D. Acquisition Strategy The MISO program has an evolutionary acqui operational tests, and acceptance support. The LRBS program has an evolutionary acqui operational tests, and acceptance support.	isition strategy. isition strategy.	Commercia Commercia	l and goverr l and goverr	nment agenc nment agenc	y sources wi y sources wi	ll be leverage Il be leverage	d for require	ed certificat ed certifica	ions, functio tions, functio	nal and nal and

Exhibit R-2A, RDT&E Project Justification: PB 2015 United St	tates Special Operations Command	Date: March 2014
Appropriation/Budget Activity 400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) D476 <i>I Military Information Support</i> <i>Operations</i>
The PDS program has an evolutionary acquisition strategy. Cor functional and operational tests, and acceptance support.	mmercial and government agency sources will continue to	be leveraged for required certifications,
E. Performance Metrics		
N/A.		

khibit R-4, RDT&E Schedule Profile: PB 2015	5 Unite	ed S	tates	s Spe	ecia	l Op	erati	ons	Con	nma	nd											Date	e: M	arch	ו 20	14		
ppropriation/Budget Activity 100 / 7								R-1 PE ²	Pro 1160	graı)431	n Ele BB /	eme ' Wa	ent (arrioi	Nui r Sy	nbei sterr	r/Na is	me)		Pro D4 Op	o jec 76 / erat	t (N Milii ions	umb tary	er/N Infor	lam mat	e) ion	Supp	oort	
		FY	201	3		FY	2014	4		FY	2015	;		FY	2016	6		FY	2017	7		FY	2018	3		FY 2	2019	•
	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
Military Information Support Operations System		'																										
Hardware development and systems engineering																												
Long Range Broadcast System																												
Material Research and Prototype Testing																												
Product Distribution System																												
Hardware Development and Systems Engineering																												

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

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

Exhibit R-2, RDT&E Budget Iter	n Justificat	ion: PB 20	15 United St	tates Speci	ial Operatio	ns Comman	nd			Date: Mare	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, To Operational Systems Development	est & Evalua nt	ation, Defer	nse-Wide I B	A 7:	R-1 Progr PE 116043	am Elemen 32BB / Spec	t (Number/ cial Program	Name) ¹⁸				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	-	7.185	20.908	-	20.908	3.124	1.641	1.676	1.706	Continuing	Continuing
S500E: Special Programs	0.000	-	7.185	20.908	-	20.908	3.124	1.641	1.676	1.706	Continuing	Continuing
[#] The FY 2015 OCO Request wi	II be submit	ted at a late	er date.			1		1	1	1	1	
A. Mission Description and Bud	dget Item Ju	ustification	<u>1</u>									
This program is reported in accord	rdance with	Title 10, Ur	nited States	Code, Sec	tion 119(a)(1) in the Sp	ecial Acces	s Program	Annual Rep	ort to Cong	ress.	
B. Program Change Summary (\$ in Million	<u>s)</u>		<u>FY 2013</u>	<u>FY 201</u>	<u>14</u> <u>F</u>	TY 2015 Ba	<u>se</u>	FY 2015 O	<u>co</u>	<u>FY 2015 To</u>	otal
Previous President's Budg	get			-	7.42	24	4.4	08		-	4.4	408
Current President's Budge	et			-	7.18	35	20.9	08		-	20.9	908
Total Adjustments				-	-0.23	39	16.5	00		-	16.5	500
Congressional C	General Red	uctions		-		-						
Congressional E	Directed Red	luctions		-		-						
Congressional F	Rescissions			-		-						
Congressional A	Adds			-		-						
Congressional E	Directed Trai	nsfers		-		-						
Reprogramming	S			-		-						
SBIR/STTR Trail	nsfer			-	-0.23	39						
Other Adjustment	nts			-		-	16.5	00		-	16.5	500
<u>Change Summary Expla</u> Funding:	ination											
FY2013: None.												
FY2014: Decrease of \$0.	239 million i	is due to a	transfer of fu	unds to Sm	all Business	Innovative	Research/S	Small Busin	ess Techno	logy Transf	fer programs	6.
FY2015: Increase of \$16	.500 million	is due to a	realignment	to higher o	command pr	iorities.						
Schedule: None.												
Technical: None.												

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Exhibit R-2, RDT&E Budget Item	n Justificat	i on: PB 201	15 United S	tates Speci	al Operatior	ns Comman	ıd			Date: Mare	ch 2014						
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	est & Evalua nt	ation, Defen	se-Wide I B	BA 7:	R-1 Progra PE 116047	Image: Program Element (Number/Name) Image: Program Element (Num											
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost					
Total Program Element	117.608	1.976	-	-	-	-	-	-	-	-	-	119.584					
S700: SOF Communications Equipment and Electronics Sys	117.608	1.976	-	-	-	-	-	-	-	-	-	119.584					

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

<u>Note</u>

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)	FY 2013	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	2.225	-	-	-	-
Current President's Budget	1.976	-	-	-	-
Total Adjustments	-0.249	-	-	-	-
 Congressional General Reductions 	-0.178	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.003	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.068	-			

Change Summary Explanation

Funding:

FY2013: Decrease of \$0.249 million is due to sequestration reductions (-\$0.178 million), congressional rescissions (-\$0.003 million), and a transfer of funds to Small Business Innovative Research (-\$0.068 million).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160474BB / SOF Communications Equipment and	Electronics Systems
Sequestration Impact: Required project re-scope.	· ·	
FY2014: None		
Schedule: None.		
Technical: None.		
PE 1160474BB: SOF Communications Equipment and Electronics	UNCLASSIFIED	Volumo 5, 469

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2015 l	Jnited State	s Special C	Operations C	Command				Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116047 Equipment	am Elemen 74BB / SOF t and Electro	t (Number Communic onics Syste	/Name) ations ms	Project (N S700 / SO and Electro	umber/Na F Commui onics Sys	n me) nications Eq	uipment
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S700: SOF Communications Equipment and Electronics Sys	117.608	1.976	-	-	-	-	-	-	-	-	-	119.584
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
 Inits project provides for communi- systems remain technologically si warfighting capability without deg efficient and more robust SOF Co United States Special Operations capabilities throughout the 21st of exchange of information to all org from separate systems to full inter- elements to operate with any force SOF deployable node (SDN) is high-capacity, voice, data, video replacement. 	superior to a grading their ommand, C s Command, C s Command, C s Command century. US ganizational egration with ce combinat s a family of tele confere	(USSOCO SOCOM's (echelons. in the Glob ion in multij deployable ence (VTC),	M) has dev M) has dev C4 systems The C4I sy al Information , super high and video a	at all levels	legree of sur unications A puter (C4) of overall strate support this IG). The GIG multi-band, of classifica	satellite con satellite con satellite con	re that C4 s f systems p ecture empl ude of existi nmunication sists of SDI	ystems con roviding pos oy the lates ing and proj ns (SATCOI N variants, t	tinue to pro sitive comm t standards ected natio	vide SOF v and and c and techn nal assets providing	with the requires that improvise and the requirement of the requirement of the requirement of the transpo and capital e	ves their ter, more uired ne timely nsitioning SOF ort path for equipment
B. Accomplishments/Planned P	Programs (S	5 in Million	<u>s)</u>						FY	2013	FY 2014	FY 2015
<i>Title:</i> SDN <i>FY 2013 Accomplishments:</i> Continued to develop, test, and e technologies, shipboard carry-on	valuate nex satellite sys	t generation stems and v	n light manp vide band S	oack system ATCOM or	ns and multi n-the-move f	-purpose ba	aseband, ac	celeration		1.976	-	-
					Accomplis	shments/Pl	anned Pro	grams Sub	totals	1.976	-	-

Exhibit R-2A, RDT&E Project Just	tification: PB	2015 United	States Spec	cial Operati	ons Commar	ld			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 P PE 1 ⁻ <i>Equip</i>	rogram Eler 60474BB / S ment and Ele	nent (Numb SOF Commu ectronics Sys	er/Name) nications stems	Project (N S700 / SC and Electr	lumber/Na F Commur ronics Sys	me) nications Eq	uipment
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>									
			FY 2015	<u>FY 2015</u>	<u>FY 2015</u>					Cost To	
Line Item	FY 2013	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	FY 2017	FY 2018	<u>FY 2019</u>	Complete	Total Cost
 PROC1: Communications 	135.775	-	-	-	-	-	-	-	-	-	135.775
Equipment and Electronics											
Bomarka											

<u>Remarks</u>

D. Acquisition Strategy

• SDN is a fielded program with evolutionary technology insertion into all variants: heavy, medium light, Mobile SOF strategic entry point (MSSEP), and airborne Intelligence Surveillance Reconnaissance transport variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.

E. Performance Metrics

N/A

xhibit R-4, RDT&E Schedule Profile: PB 2	015 Un	United States Special Operations Command								Date: March 2014																				
ppropriation/Budget Activity 400 / 7									R-1 Program Element (Number/Name) PE 1160474BB / SOF CommunicationsEquipment and Electronics Systems											Pr S7 an	oje '00 d E	ct (Number/Name) I SOF Communications Equipment Electronics Sys								
		F	Y 20	13		F	FY 2	2014			FY 2	2015	5		FY	2010	6		FY	201	7		F	Y 2	018	3		FY	201	9
		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	1	2	3	4
SOF Deployable Node				!		l			1												_,									
Evolutionary Technology Insertions																														-

hibit R-4A, RDT&E Schedule Details: PB 2015 United States Spec	Date: March 2014				
opropriation/Budget Activity 00 / 7	R-1 Program Element (Number/I PE 1160474BB / SOF Communica Equipment and Electronics System	Name) ations ns	Project (Number/Name) S700 / SOF Communications Equipme and Electronics Sys		
	Sebadula Dataila				
	Schedule Details				
	Schedule Details	t	En	d	
Events by Sub Project	Schedule Details Star Quarter	t Year	En Quarter	d Year	
Events by Sub Project SOF Deployable Node	Schedule Details Star Quarter	t Year	En Quarter	d Year	

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command									Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160476BB / SOF Tactical Radio Systems							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	58.556	2.697	-	-	-	-	-	-	-	-	-	61.253
S725: SOF Tactical Radio Systems	58.556	2.697	-	-	-	-	-	-	-	-	-	61.253

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

Note

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 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.

<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
3.036	-	-	-	-
2.697	-	-	-	-
-0.339	-	-	-	-
-0.243	-			
-	-			
-0.004	-			
-	-			
-	-			
-	-			
-0.092	-			
	FY 2013 3.036 2.697 -0.339 -0.243 - -0.004 - - - -0.092	FY 2013 FY 2014 3.036 - 2.697 - -0.339 - -0.243 - - - -0.004 - - - - - -0.004 - - <	FY 2013 FY 2014 FY 2015 Base 3.036 - - 2.697 - - -0.339 - - -0.243 - - -0.004 - - -0.004 - - -0.004 - - -0.004 - - -0.0092 - -	FY 2013 FY 2014 FY 2015 Base FY 2015 OCO 3.036 - - - 2.697 - - - -0.339 - - - -0.243 - - - -0.004 - - - -0.004 - - - -0.092 - - -

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spe	es Special Operations Command Date: March 2014		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160476BB / SOF Tactical Radio Systems		
FY 2013: Decrease of \$0.339 million is due to sequestration reduction Small Business Innovative Research (-\$0.092 million).	ns (-\$0.243 million), congressional rescissions (-\$0.004 mill	ion), and a transfer of funds to	
Sequestration Impact: Project re-scope and negotiation, resulting in a	nine-month delay in contract award.		
FY 2014: None.			
Schedule: None.			
Technical: None.			

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 L	Jnited State	es Special C	Operations (Command				Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7		R-1 Program Element (Number/Name)ProjectionPE 1160476BB / SOF Tactical RadioS725SystemsS725					e ct (Number/Name) 5 / SOF Tactical Radio Systems					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 20	18 FY 201	Cost To 9 Complete	Total Cost
S725: SOF Tactical Radio Systems	58.556	2.697	-	-	-	-	-	-		-		61.253
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-		-	-	
A. Mission Description and Bud This project is for development of provide a maximum degree of sur USSOCOM has developed an ove Tactical Radios provide the critical Operations and training exercises agencies, and allied foreign forces infiltrated/operational elements ar B. Accomplishments/Planned Planned Planned Title: SOF Tactical Communication FY 2013 Accomplishments: Developed and tested Tactical Ra SOF units and airborne and on-or	get Item Ju all SOF tao vivability. \$ erall strateg I Command . They also s. Tactical d higher ec rograms (\$ ns (STC) dio application pit assets.	ustification ctical radio SOF units r by to ensure d, Control, a provide in Radios rap chelon head in Million	programs. equire radio that Tactio and Commu teroperabili idly and sea dquarters, a s) on software	The SOF m communic cal Radio Si unications li ity with all S amlessly es allowing SO	nission man cation equip ystems cont nk between Services, va stablish and F to operate to operate	dates that S ment that in tinue to pro- s SOF Comu- rious agence maintain m e with any for tuation awa	SOF system nproves the vide SOF w manders an cies of the U obile and fix prce combin	is remain te eir war-fighti ith the requ d SOF Tea S. Governi ked Comma nation in mu	chnologi ing capa ired capa ms invol ment, Air and and (iltiple env d	cally superio bility without abilities throuved in Overs Traffic Control comr vironments. FY 2013 2.697	r to any threa degrading th ighout the 21 eas Continge rol, commerc nunications b FY 2014	at to eir mobility. st century. ency tial between FY 2015
					Accompli	shments/P	lanned Pro	grams Sub	ototals	2.697	-	-
C. Other Program Funding Sum Line Item • PROC: Tactical Radio Systems Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A	mary (\$ in FY 20 69.1	<u>Millions)</u> <u>13 FY 2</u> 97	<u>FY</u> 014 <u>1</u> -	<u>2015 FY</u> <u>Base</u> -	<u>2015</u> F OCO	<u>Y 2015</u> <u>Total</u> <u>F</u> -	<u>- Y 2016</u> -	<u>FY 2017</u> -	FY 2018	<u>8 FY 2019</u> -	<u>Cost To</u> <u>Complete</u> -	<u>Total Cost</u> 69.197
DE 1160/76BB: SOE Tactical Pad	o Svetome											

xhibit R-4, RDT&E Schedule Profile: P	B 2015 United States Spe	cial Operations (Command			Date: N	/larch 2014
Appropriation/Budget Activity 400 / 7		R-1 PE 1 Syst	e) Projec S725	Project (Number/Name) S725 / SOF Tactical Radio Systems			
	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 201	8 FY 2019
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	2 3 4	1 2 3	4 1 2 3 4
SOF Tactical Radios		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · ·
Secure Wireless Capability							

nibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations	Command	ommand				
propriation/Budget Activity R-1 F 00 / 7 PE 1 ⁻¹ Syste	Program Element (Number 160476BB / SOF Tactical Re ems	r/ Name) adio	Project (Nu S725 / SOF	(Number/Name) SOF Tactical Radio Systems		
Cabadul	Detaile					
Scheduk						
Scheduk	e Details	ırt		Enc	t t	
Events by Sub Project	Sta	ırt Year	Qu	Encuarter	d Year	
Events by Sub Project SOF Tactical Radios	Quarter	rrt Year	Qu	Encuarter	d Year	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command								Date: March 2014				
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160477BB / SOF Weapons Systems							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	11.134	1.610	-	-	-	-	-	-	-	-	-	12.744
S375: SOF Weapons Systems	11.134	1.610	-	-	-	-	-	-	-	-	-	12.744

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

<u>Note</u>

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 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	1.511	-	-	-	-
Current President's Budget	1.610	-	-	-	-
Total Adjustments	0.099	-	-	-	-
 Congressional General Reductions 	-0.156	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.002	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	0.302	-			
SBIR/STTR Transfer	-0.045	-			

Change Summary Explanation

Funding:

FY 2013: Net increase of \$0.099 million is due to a reprogramming from PE 1160479BB for development and testing of Weapon Accessories Visual Augmentation Systems and Small Arms Signature Reduction (SASR) Suppressor (\$0.302) million; sequestration reductions (-\$0.156 million); Congressional Rescissions (-\$0.002 million); and for transfer of funds to Small Business Innovative Research (-\$0.045 million).

Appropriation/Budget Activity 400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160477BB / SOF Weapons Systems	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command										Date: Mar	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160477BB / SOF Weapons SystemsProject (Nu S375 / SOF				u mber/Name) F Weapons Systems			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S375: SOF Weapons Systems	11.134	1.610	-	-	-	-	-	-	-	-	-	12.744
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
[#] The FY 2015 OCO Request wil	l be submit	ted at a late	r 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:

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 Prog	<u>rams (\$ in N</u>	<u>/lillions)</u>						ſ	FY 2013	FY 2014	FY 2015
Title: WPNAC									1.610	-	-
FY 2013 Accomplishments: Continued development of VAS and F operational and developmental testing	⁻ MBS progra g, and user a	ams. Condu assessment	cted market that support	research, co ed the VAS a	ontinued dov and FMBS p	vn select sup rograms.	oport, test artic	cles,			
				Accon	nplishments	s/Planned P	rograms Sub	ototals	1.610	-	-
C. Other Program Funding Summan Line Item • PROC: Small Arms and Weapons Remarks	r y (\$ in Milli o <u>FY 2013</u> 25.244	ons <u>)</u> FY 2014 -	<u>FY 2015</u> <u>Base</u> -	FY 2015 OCO -	<u>FY 2015</u> <u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	FY 201	1 <u>8 FY 2019</u> 	<u>Cost To</u> <u>Complete</u> -	<u>Total Cost</u> 25.244

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special C	Date: March 2014			
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name) E Weapons Systems	
040077	FE 1100411BB1 SOF Weapons Systems	3373730		

D. Acquisition Strategy

• WPNAC. Develops, tests, and evaluates accessories to optimize the effectiveness of all SOF weapons in order to increase their operational effectiveness through improved target recognition, acquisition and hit capability during day and night from close quarters to maximum effective range of each weapon. Develops VAS for SOF weapons systems. Devices will provide the SOF operator with the ability to engage enemy combatants in all lighting conditions utilizing SOF weapons systems. Develops next generation suppressors for SOF rifle/carbine and light machine gun weapons systems to enhance SOF operational security during engagement with enemy combatants.

E. Performance Metrics

F. Major Performers

Activity/Location Naval System Warfare Center-Crane/Crane, Indiana Description System Engineering, developmental and operational testing Project

Various

opropriation/Budget Activity 00 / 7						F	R-1 Program Element (Number/Name) Project (: (N I	Number/Name)											
							1	PE 11004//BB1SOF weapons Systems S3751S									501	OF Weapons Systems										
		FY 2	013			FY 2	014			FY 20	015		F	FY 2	016			FY	2017	,		FY 2	018			FY 2	019	}
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Weapons Accessories -Visual Augmentation Systems Development										<u> </u>					I			1		1	1	1		I.		<u> </u>		<u> </u>
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																												

hibit R-4A, RDT&E Schedule Details: PB 2015 United States Special O		Date: March 2014				
ppropriation/Budget Activity 00 / 7	R-1 Program Element (Number PE 1160477BB / SOF Weapons	r/ Name) F Systems S	Project (Number/Name) S375 / SOF Weapons Systems			
S	Schedule Details					
	Sta	nrt	En	d		
Events by Sub Project	Quarter	Year	Quarter	Year		
Weapons Accessories -Visual Augmentation Systems Developmen	nt					
Develop/release solicitation	1	2013	1	2013		
Source Selection	2	2013	2	2013		
Contract Award	2	2013	3	2013		
Receive Prototype Systems	4	2013	4	2013		
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	2013	2	2013		
LMG Research and Development Contract Award	1	2013	1	2013		
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		

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development						am Elemen 78BB / SOF	vstems									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost				
Total Program Element	7.168	3.748	-	-	-	-	-	-	-	-	-	10.916				
S385: Soldier Protection and Survival Systems	6.297	2.707	-	-	-	-	-	-	-	-	-	9.004				
S385A: Theater Body Armor and Associated Equipment	0.871	1.041	-	-	-	-	-	-	-	-	-	1.912				

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

Note

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.

Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	4.263	-	-	-	-
Current President's Budget	3.748	-	-	-	-
Total Adjustments	-0.515	-	-	-	-
 Congressional General Reductions 	-0.193	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.005	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.182	-			
 SBIR/STTR Transfer 	-0.135	-			
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Spec	cial Operations Command	Date: March 2014										
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160478BB / SOF Soldier Protection and Survival S	ystems										
FY 2013: Decrease of \$0.515 million is due to sequestration (-\$0.193 m priorities (-\$0.182 million) and a transfer of funds to Small Business Inr	nillion), congressional rescission (-\$0.005 million), a repro novative Research (-\$0.135 million).	gramming to higher command										
Schedule: None.												
Technical: None.												
Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 U	Inited State	s Special C	perations C	Command				Date: Marc	ch 2014	
--	----------------	---------------------------------------	--	---------------------------	--------------------------------------	---	---------	---------	---------	------------	---------------------	---------------
Appropriation/Budget Activity 0400 / 7		R-1 Progra PE 116047 and Surviv	am Elemen 78BB / SOF al Systems	t (Number/ Soldier Pro	Project (N S385 / Sole Systems	: t (Number/Name) ' Soldier Protection and Survival ns						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S385: Soldier Protection and Survival Systems	6.297	2.707	-	-	-	-	-	-	-	-	-	9.004
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

• This project provided 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 improved 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 provided 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.

• Radio Counter-Improvised Explosive Device (RC-IED) program provided 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 2013	FY 2014	FY 2015
Title: SPEAR	1.789	-	-
<i>FY 2013 Accomplishments:</i> Provided continuation of profile refinement to support signature management, reactive fiber testing and material research for uniforms. Developed a solicitation for an advanced maritime communications system. Developed and test safety belt, lanyard efforts. In addition, tested nano-coatings for water repellency for individual equipment. Continued on-going prototype testing and research on load effects for survivability and marksmanship.			
Title: RC-IED	0.918	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Just	ification: PB	2015 United	d States Spe	cial Operation	ons Comma	nd			Date: N	/larch 2014	
Appropriation/Budget Activity 0400 / 7	Propriation/Budget Activity R-1 Program Element (Number/Name) 00 / 7 PE 1160478BB / SOF Soldier Protection and Survival Systems and Survival Systems									Name) tection and S	urvival
B. Accomplishments/Planned Pro	grams (\$ in	Millions)							FY 2013	FY 2014	FY 2015
Provided for National Assessment C test article acquisition, and market re ability to accurately test against curr	Froup test sup esearch of the rent and emer	oport to the e RC-IED pr rging threat s	RC-IED prog ograms. Ma systems.	gram. Suppo iintained ran	rt system er ge effectiver	ngineering, te ness and cur	est and evalu rrency, ensur	ation, ing the			
				Acco	mplishment	s/Planned F	Programs Su	ıbtotals	2.707	-	-
C. Other Program Funding Summ	ary (\$ in Mill	ions <u>)</u>	FY 2015	FY 2015	<u>FY 2015</u>					Cost To	<u>)</u>
Line Item • PROC/0607SPSS: Soldier Protection and Survival Systems <u>Remarks</u>	<u>FY 2013</u> 14.572	<u>FY 2014</u> -	<u>Base</u> -	<u>000</u> -	<u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	<u>FY 20</u>	<u>18 FY 201</u> -	<u>9</u> Complete 	<u>Total Cost</u> 50.415
 D. Acquisition Strategy SPEAR primarily took advantage of made with O&M. RC-IED - Resources supports the Electronic Countermeasure Counter 	of modified co on-going dev r Radio-Cont	ommercial of velopment ar rolled Improv	ff- the- shelf nd effectiven vised Explos	or non-deve ess testing t ive Device (lopmental ite hrough the I RC-IED) Wa	ems through National Asso rfare system	open compe essment Gro 1.	tition. Th up of the	ne majority of SOF-Unique	SPEAR purc	hases are: ation
<u>E. Performance Metrics</u> N/A											

chibit R-4, RDT&E Schedule Profile: PB 2015 U	l Ope	perations Command									Date: March 2014																	
opropriation/Budget Activity 00 / 7							R-1 Program Element (Number/Name) PE 1160478BB / SOF Soldier Protection and Survival Systems									e) Project (Number/Name) n S385 / Soldier Protection and Survival Systems									val			
	FY 2013				FY 2014		1	F	FY 2	015		FY 2016				FY	2017	7		FY	2018	3		FY	2019	9		
	1	2	3	4	1	2	3	4	1	2	3 4	1	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 2015 United States Special Operations Command Date: March 2014	
Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project (Number/Name)0400 / 7PE 1160478BB / SOF Soldier Protection and Survival SystemsS385 / Soldier Protection and Systems	Survival

Schedule Details

	Sta	art	Er	d
Events by Sub Project	Quarter	Year	Quarter	Year
SPEAR Protective Combat Uniform (PCU)				
Reactive Fiber Testing	1	2013	4	2013
PCU P3I	1	2013	2	2014
Signature Management Profile Characterization	1	2013	2	2014
Materials Research	1	2013	4	2013
Modular Glove System	2	2013	2	2014
Market Research, Lightweight Power for Active Heating	1	2013	4	2013
SPEAR MICH Comms	· · · · · · · · · · · · · · · · · · ·			
Market Research/Interoperability Assessment	1	2013	2	2014
Maritime Comms Develop	2	2013	4	2013
SPEAR LCS, Body Armor Vest (BAV and Backpacks)	· · · · · · · · · · · · · · · · · · ·			
LCS/BAV/Backpack Material and Prototyping Testing	2	2013	2	2014
Safety Belt and Lanyard Test Methods	2	2013	4	2013
Testing Water Repellant Nanocoatings	2	2013	4	2013
Load Effects on Survivability	2	2013	4	2013
RC-IED				
NAG RC-IED Test Support	2	2013	3	2014

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	Jnited State	s Special C	Operations C	Command				Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7	t (Number Soldier Pro	Name) Direction	Project S385A <i>I</i> Associa	(Number/N Theater Bo ed Equipm	ame) dy Armor an ent	d						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 201	8 FY 201	Cost To Complete	Total Cost
S385A: Theater Body Armor and Associated Equipment	0.871	1.041	-	-	-	-	-	-		-		1.912
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-		-	-	
A. Mission Description and Bud This project provided specialized Navy Sea, Air, Land (SEAL) team ballistic equipment improved surv conducted in harsh environments This budget line enhanced the SC protection. It also provided for the ballistic protection efforts was dire	get Item J equipment is; Navy Sp vivability and a, for unspect OF Persona e research, ected in the	ustification to meet the becial Boat I d load beari cified period al Equipmen developme National D	unique sol Units; Air Fo ing equipme ds and in loo at Advancec ent, and test efense Auth	dier protect orce Specia ent impactir cations requ I Requireme ting of a var norization A	tion and sur- al Tactics Op ng the mobil uiring small ents (SPEA riety of body act of 2010.	vival require perators; an ity of SOF v unit autono R) program v armor and	ements of S d Marine Fo vhile condu my. by supporti personal pr	OF, to inclu orces Speci cting varied ng body arr rotective eq	de: Army al Operat missions mor plate: uipment.	Rangers; A ions Comm . These mis s, soft armo Creation of	rmy Special and. Speciali sions are ge , helmets, ai a separate p	Forces; zed nerally nd eye roject for
B. Accomplishments/Planned P	rograms (s		<u>s)</u>							FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: Continued foreign ammunition tes studies. Conducted body armor m Conducted evaluation of transpart on anti-fogging technologies and	ating and the naterial rese ent armor p continued d	reat validati earch and te roducts whi levelopmen	on to asses esting along ich include t of low visi	s armor eff with the sc ballistic and bility eyewe	ectiveness. oldier load a d optical test ear to suppo	Continued nalysis and ting of trans rt future eye	the helmet on behind a ition lenses e protection	design and armor effec . Initiated v capabilities	blast ts. vork s.	1.01		_
					Accomplis	shments/Pl	anned Pro	grams Sub	totals	1.041	-	-
C. Other Program Funding Sum N/A Remarks D. Acquisition Strategy SPEAR ballistic protection equipr Currently these SPEAR purchase	mary (\$ in ment took a es are made	<u>Millions)</u> dvantage of e with O&M.	f modified c	ommercial- COM requi	off-the-shel rements are	f or non-dev different fro	velopmental	items acqu the Service	uired throu	ıgh full and everaged fr	open compe om industry	tition. are often

Exhibit R-2A, RDT&E Project Justification: PB 2015 Unite	ed States Special Operations Command	Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160478BB / SOF Soldier Protection and Survival Systems	Project (Number/Name) S385A I Theater Body Armor and Associated Equipment
on the cutting edge of technology and require substantial te services and other government agencies.	esting in the SOF environments. Some SPEAR ballistic systems	s have transitioned to the U.S. Army, other
E. Performance Metrics		

xhibit R-4, RDT&E Schedule Profile: PB 2015 L	Jnite	d Sta	tes	Spe	cial	Ope	eratio	ons Co	omn	nand										Da	ate: N	larcl	n 20	14		
ppropriation/Budget Activity 400 / 7								R-1 P PE 11 and S	rog 604 Survi	ram E 78BB <i>val Sy</i>	lem / So ster	ent (OF S ns	(Nun Soldie	nber/ er Pro	Nam otect	1e) ion	P S A	rojec 385A ssoci	t (N / Th iated	um hea I Ec	ber/N ter Bo quipm	Nam ody J nent	e) Arm	or ai	nd	
		FY 2	013			FY	2014		F	Y 201	5		FY	2016		F	Y 20	17		FY	(201	8		FY	2019)
	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	2 3	3 4	1	2	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																										_

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command Date: March										
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160478BB / SOF Soldier Protection and Survival Systems	Project (N S385A / Th Associated	umber/Name) neater Body Armor and I Equipment							

Schedule Details

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

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command											Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Progr a PE 116047	am Elemen '9BB / SOF	t (Number/ Visual Aug	Name) mentation, I	Lasers and	Sensor Sys	tems					
COST (\$ in Millions)	T (\$ in Millions) Prior Years FY 2013 FY 2014 Bas					FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost				
Total Program Element	13.960	3.649	-	-	-	-	-	-	-	-	-	17.609				
S395: SOF Visual Augmentation, Lasers and Sensor Systems	13.960	3.649	-	-	-	-	-	-	-	-	-	17.609				

[#] The FY 2015 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.

3. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	4.448	-	-	-	-
Current President's Budget	3.649	-	-	-	-
Total Adjustments	-0.799	-	-	-	-
 Congressional General Reductions 	-0.357	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.005	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.302	-			
 SBIR/STTR Transfer 	-0.135	-			
Change Summary Explanation Funding:					

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	United States Special Operations Command Date: March 2014						
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160479BB / SOF Visual Augmentat	tion, Lasers and Sensor Systems					
FY 2013: Decrease of -\$0.799 million is due to sequestration reduct command priorities (-\$0.302 million) and a transfer of funds to Small	tions (-\$0.357 million), congressional rescissi I Business Innovation Research (-\$0.135 mill	ions (-\$0.005 million), a reprogramming to higher ion).					
Sequestration Impacts: Delays the testing of the Hand-Held Laser M	Marker Designator by four months.						
Schedule: None.							
Technical: None.							

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 U	nited State	s Special O	perations C	command				Date: Marc	h 2014	
Appropriation/Budget Activity 0400 / 7	Budget Activity						t (Number/ Visual Augi stems	Name) mentation,	Project (Number/Name) S395 I SOF Visual Augmentation, Lasers and Sensor Systems			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S395: SOF Visual Augmentation, Lasers and Sensor Systems	13.960	3.649	-	-	-	-	-	-	-	-	-	17.609
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This project provides for development, testing and integration of specialized 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 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. SOF Improvements include the following: (1) Ability to detect, classify and engage targets without the use of an infrared illuminator; (2) ability to determine wind speed; (3) ability to observe bullet trace.

VAS 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 hardening to withstand the live-fire shock profiles for the Combat Assault Rifle, VAS and clandestine pointer. Leveraging extensive modeling and simulation efforts executed by National Labs. Develop clandestine operator-borne visual augmentation devices. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator.

Exhibit R-2A, RDT&E Project Just	tification: PB	2015 United	I States Spe	cial Operatio	ons Commar	nd			Date: M	arch 2014				
Appropriation/Budget Activity 0400 / 7				R-1 Pi PE 11 Lasers	r ogram Ele 60479BB / S s and Sensc	nent (Numb SOF Visual A r Systems	er/Name) ugmentation,	Projec S395 / and Se	j ect (Number/Name) 35 I SOF Visual Augmentation, Lase I Sensor Systems					
B. Accomplishments/Planned Pro	ograms (\$ in I	<u>/lillions)</u>							FY 2013	FY 2014	FY 2015			
Title: VAS									3.649	-	_			
FY 2013 Accomplishments: Continued the development of the r awareness, sharing of data/images all lighting conditions: (1) Ability to (2) Ability to determine wind speed greater.	lext generation and target acc detect, classif at ranges out	n of operator quisition. The y, and engag to 500 m or s	r-borne visua e primary ca ge targets ou greater; and	al augmentat pability short it to 800 m w (3) Ability to	tion devices tfalls addres vithout the u observe bu	to improve si sed include t se of an infra llet trace at ra	tuational ne following u red illuminate anges of 800	under or; m or						
				Accon	nplishment	s/Planned P	ograms Sub	ototals	3.649	-	-			
C. Other Program Funding Summ	arv (\$ in Milli	ons)												
Line Item • PROC/0607SVALSS: Visual Augmentation, Lasers and Sensor Systems Remarks	<u>FY 2013</u> 31.158	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u> -	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	<u>FY 201</u> -	<u>8 FY 2019</u> -	Cost To Complete	<u>Total Cost</u> 50.062			
D. Acquisition Strategy VAS utilizes FY 2012 and FY 2013 efforts will leverage Science and Te Delivery Indefinite Quantity product	RDT&E funds echnology proj tion contract ir	to develop ects conduc FY 2014 ar	prototypes fo ted to date a d FY 2015 t	or the SOF n and lead to th o support S0	lext generat ne developn OF procuren	on operator-l nent of prototy nent of the pr	oorne visual a vpe systems t oduction vers	augmenta for SOF sion of th	ation devices to evaluate a e next gener	 These dev and an Indefir ation operato 	elopmental nite or-borne			

E. Performance Metrics

visual augmentation devices.

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2015 U	nited	d Sta	ates	Spe	ecia	l Op	erati	ons	Со	mma	nd											Date	e: M	arch	201	14		
Appropriation/Budget Activity 0400 / 7								R-1 PE ² Lase	Pr 116 e <i>rs</i>	ogra 60479 and	m E 9BB Sen	leme I SC	ent DF Sys	(Nu Visua stem	mbe al Au s	r/Na gme	me) entat	ion,	Pro S39 and	o ject 95 / 3 1 Ser	SOF SOF	umb Vis Sys	er/N ual / stem	ame Augn s	e) nen	tatio	n, La	asers
		FY 2	2013	3		FY	2014	4		FY	201	5		FY	2010	6		FY	2017	,		FY 2	2018			FY 2	2019)
	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																												

Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Ope	rations Command		Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160479BB / SOF Visual Augmentation, Lasers and Sensor Systems	Project (N S395 / SO and Senso	umber/Name) F Visual Augmentation, Lasers r Systems

Schedule Details

	S	tart	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Visual Augmentation System Binocular/Monocular					
Development of the Next Generation Operator-borne Combat Optics	1	2013	4	2013	
Integration and Testing of the Next Generation Operator-borne Combat Optics	4	2013	2	2014	
Development of the Next Generation Visual Augmentation Device for Target Engagement Systems	2	2013	2	2014	

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations C						rations Command					Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1160480BB / SOF Tactical Vehicles									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
Total Program Element	15.424	10.935	2.135	3.672	-	3.672	3.235	3.369	2.621	2.669	Continuing	Continuing		
S910: SOF Tactical Vehicles	15.424	10.935	2.135	3.672	-	3.672	3.235	3.369	2.621	2.669	Continuing	Continuing		

[#] The FY 2015 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 Forces (SOF) Vehicles and ancillary equipment. Current SOF tactical vehicles include: Lightweight Tactical All Terrain 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 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	11.325	2.206	3.672	-	3.672
Current President's Budget	10.935	2.135	3.672	-	3.672
Total Adjustments	-0.390	-0.071	-	-	-
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.015	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.375	-0.071			

Change Summary Explanation

Funding:

FY 2013: Decrease of -\$0.390 million is due to congressional rescissions -\$0.015 million and a transfer of funds to Small Business Innovative Research (-\$0.375 million).

FY 2014: Decrease of -\$0.071 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs.

FY2015: None

Schedule: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160480BB / SOF Tactical Vehicles				
Technical: None.					

Exhibit R-2A, RDT&E Project Ju	stification:	: PB 2015 U	Inited State	s Special O	perations C	ommand				Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 7		R-1 Progra PE 116048	am Elemen 0BB / SOF	t (Number /l Tactical Vel	lumber/Name))F Tactical Vehicles							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S910: SOF Tactical Vehicles	15.424	10.935	2.135	3.672	-	3.672	3.235	3.369	2.621	2.669	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This project 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 Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (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. Specific efforts include but are not limited to: Medium Mobility Vehicle Version 1.1 effort which provides 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. Additionally, efforts include ECPs associated with the Non-Standard Commercial Vehicle (NSCV) and the Light Tactical Vehicle. The Mine Resistant Ambush Protected (MRAP) Vehicle Kit. 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 Remotely Operated Weapon Station integration to service-common MRAPs.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Family of Special Operations Vehicle	10.935	2.135	3.672
<i>FY 2013 Accomplishments:</i> Conducted various NSCV tests to support platform ECP designs that enhanced safety and reliability. Developed ECPs that implement incremental upgrades and improve the design of the medium mobility vehicles; efforts include development, prototyping and testing for Medium Mobility Vehicle, GMV 1.0 and 1.1. Developed SOF-peculiar integration kits for service-common MRAPs.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Just	t R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command											
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 11	r ogram Ele r 60480BB / S	nent (Numb SOF Tactical	er/Name) Vehicles	Project S910 / J	(Number/Na SOF Tactical	a me) Vehicles		
B. Accomplishments/Planned Pro	grams (\$ in N	<u>lillions)</u>							FY 2013	FY 2014	FY 2015	
Continue development of ECPs that Complete development, prototyping service variant MRAPS.	implement in and testing of	cremental up version 1.1	ogrades and of medium i	improve the mobility vehi	e design of th cle and SOF	ne medium m F-Peculiar Int	obility vehicl egration Kits	es. for				
FY 2015 Plans: Continues integration of ECPs that i Efforts include Live Fire Test and Ev mobility vehicle. Continues enhance	mplement inc aluation (LFT ments/modifie	emental up &E) and Init ations on th	grades and i ial Operatior e NSCV to i	mprove the onal Test and mprove relia	design of the Evaluation (bility and su	e medium mo IOT&E) of G rvivability.	bility vehicle MV 1.1 medi	s. um				
				Accon	nplishment	s/Planned P	rograms Su	btotals	10.935	2.135	3.672	
C. Other Program Funding Summa	ary (\$ in Milli	ons)										
Line Item • PROC: <i>Tactical Vehicles</i> Remarks	FY 2013 37.080	FY 2014 37.353	<u>FY 2015</u> <u>Base</u> 63.134	<u>FY 2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> 63.134	<u>FY 2016</u> 71.741	<u>FY 2017</u> 84.603	FY 2018 68.149	FY 2019 69.473	Cost To Complete Continuing	Total Cost Continuing	
D. Acquisition Strategy Vehicle improvements integrate em through a competitive procurement.	erging techno	logy or com	mercial-off-th	ne-shelf/non-	-developmei	ntal items. N	lateriel soluti	ons will be	e procured vi	a existing co	ntracts or	

E. Performance Metrics

N/A

<pre>khibit R-4, RDT&E Schedule Profile: PB 2015 U</pre>	Inite	ed S	State	es S	pec	ial O	pera	tions	s Co	mm	nand											Da	te:	Mar	ch 20)14		
opropriation/Budget Activity 00 / 7								R- ′ PE	1 Pr 116	ogr 6048	am E 80BE	Elem 3 / So	ent OF 7	(Nu Tact	i mbe ical V	r/Na ⁄ehic	a me cles)	Pr S9	ojec 10 /	t (N SO	uml F Ta	ber/ actic	/ Nar cal V	ne) /ehic	les		
		F١	(20	13		F	Y 20 [,]	14		F١	Y 201	5		FY	<u>201</u>	6		FY	201	7		FY	20 ⁻	18		FY	2019	<u>}</u>
CMV 1.1 Vahiala Intersom (V/C 5) Systems	1		2 ;	3	4	1	2 3	3 4	1		2 3	4	1	2	2 3	4	1	2	3	4	1	2		5 4	4 1	2	3	4
CMV 1.1 VIC 5 Systems	-																											-
Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction														-					-		-							
NSCV ECP Development/Signature Reduction																												
Engineering Change Proposal (ECP) Developmental Test Support																												-
Engineering Change Proposal Developmental Test Support																												
Medium Mobility Vehicle ECPI Development																												-
Medium Mobility Vehicle ECP Development																												-
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development																												
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development																												
Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development																												-
LTATV ECP Development																												
GMV 1.1 Armor Coupon Testing																												-
GMV 1.1 Armor Coupon Testing																												-
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																												
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																												
GMV Test Support																												-
GMV 1.1 Test Support																												

xhibit R-4, RDT&E Schedule Profile: PB 2015	ibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command												Date	e: M	arch	ו 20	14											
Appropriation/Budget Activity 400 / 7	n/Budget Activity FY 2013 FY							R-1 PE ⁻	Pro 1160	gra 0480	n E)BB	leme / SC	ent (F Ta	(Nun actic	nbe al V	r /Na ehic	me) /es		Pro S9	ojec 10 /	t (Ni SOF	umb - Tao	er/N ctica	lam / Ve	e) hicle	es		
		FY	2013	3		FY :	2014	Ļ		FY :	201	5		FY 2	2016	3		FY	2017	7		FY 2	2018	3		FY 2	2019	
	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
GMV 1.1 IOT&E			1							1				1		1	1	1		1			1		1			
C4ISR ECP Developmental Test Support																												
C4ISR ECP Developmental Test Support																												

ibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operation	ns Command		Date: Marc	ch 2014
oropriation/Budget ActivityR-10 / 7PE	Program Element (Number 1160480BB / SOF Tactical N	er/Name) /ehicles	Project (Number/Nan S910 / SOF Tactical V	ne) 'ehicles
Schedu	ule Details			
	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
GMV 1.1 Vehicle Intercom (VIC-5) Systems				
GMV 1.1 VIC-5 Systems	4	2013	2	2014
Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction				
NSCV ECP Development/Signature Reduction	4	2013	4	2019
Engineering Change Proposal (ECP) Developmental Test Support			,	
Engineering Change Proposal Developmental Test Support	1	2013	4	2019
Medium Mobility Vehicle ECPI Development				
Medium Mobility Vehicle ECP Development	1	2013	4	2019
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development				
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Deve	elopment 3	2013	4	2014
Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development			,	·
LTATV ECP Development	4	2013	4	2019
GMV 1.1 Armor Coupon Testing			·	
GMV 1.1 Armor Coupon Testing	4	2013	4	2014
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test				
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	4	2013	2	2014
GMV Test Support				
GMV 1.1 Test Support	2	2015	4	2019
GMV 1.1 IOT&E	3	2015	4	2019
C4ISR ECP Developmental Test Support				
C4ISR ECP Developmental Test Support	1	2013	4	2019

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Exhibit R-2, RDT&E Budget Item		Date: Mare	ch 2014									
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	BA 7:	R-1 Progr a PE 116048	am Elemen 31BB / SOF	t (Number/ Munitions	Name)		<u> </u>					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2019	Cost To Complete	Total Cost			
Total Program Element	1.461	1.346	-	-	-	-	-	-	-	-	-	2.807
S800: <i>Munitions Advanced</i> Development	1.461	1.346	-	-	-	-	-	-	-	-	-	2.807

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

Note

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 (SOF) peculiar munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). (Including bullet impact, fast cook off, fragment impact, slow cook off, sympathetic detonation, and shaped charge test.) Testing is in accordance with the 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)	FY 2013	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	1.515	-	-	-	-
Current President's Budget	1.346	-	-	-	-
Total Adjustments	-0.169	-	-	-	-
 Congressional General Reductions 	-0.121	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.002	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.046	-			

Change Summary Explanation

Funding:

FY 2013: Decrease of \$0.169 million is due to sequestration reductions (\$0.121 million), Congressional rescission (\$.002 million) and a transfer of funds to Small Business Innovative Research (\$0.046 million).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I</i> BA 7: <i>Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions	
Schedule: None.		
Technical: None.		

Exhibit R-2A, RDT&E Project J	ustification	: PB 2015 L	Jnited State	es Special (Operations	Command				Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Pro PE 1160	g ram Eleme 9481BB / SC	ent (Numbe DF Munitions	r/Name)	Projec S800 /	t (Number/N Munitions Ac	ame) Ivanced Dev	elopment
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 201 OCO [#]	5 FY 2018 Total	5 FY 2016	FY 2017	FY 20	18 FY 201	Cost To 9 Complete	Total Cost
S800: Munitions Advanced Development	1.461	1.346	-	-				-		-		2.807
Quantity of RDT&E Articles	-	-	-	-				-		-	-	
A. Mission Description and Bu This project funds advanced eng Non-Standard Materiel (NSM). bullet impact, fragment impact, s Operations IM Testing Plan.	get item of gineering, op Provided for sympathetic of	erational sy Insensitive detonation,	vstem deve Munitions (fast cook o	lopment an (IM) techno ff, slow coo	ld qualifica logy deve ok off and	tion efforts lopment and shaped cha	related to sp I evaluation rge test. Te	ecialized mi that allows \$ sts were in a	unitions a SOF mur accordar	and equipme nitions to pas nce with the L	nt s testing whic Inited States	ch included Special
B. Accomplishments/Planned	Programs (\$	in Million	<u>s)</u>						Γ	FY 2013	FY 2014	FY 2015
Title: NSM										1.346	-	-
FY 2013 Accomplishments: Conducted proof of principle and Military Standard 2105C (DOD T	IM testing of est and Met	n various m nod Standa	nunitions. (rd: Hazard	Continued f Assessme	ull scale tent	esting to sati Non-Nuclea	isfy safety re ar Munition, 2	equirements 26 Sep 2006	in 6).			
					Accomp	lishments/	Planned Pro	ograms Sub	ototals	1.346	-	-
C. Other Program Funding Sur Line Item • PROC/0203PYDEMO:	nmary (\$ in <u>FY 20</u> 33.7	<u>Millions)</u> 1 13 FY 2 73	<u>FY</u> 014 [<u>2015 F\</u> Base -	<u>(2015</u> <u>OCO</u> -	<u>FY 2015</u> <u>Total</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	<u>FY 201</u>	<u>8 FY 2019</u> -	<u>Cost To</u> <u>Complete</u> -	<u>Total Cost</u> 66.154
Ordnance Acquisition <u>Remarks</u>												
D. Acquisition Strategy NSM: Munitions and packaging small scale for proof of principle E. Performance Metrics N/A	redesign too	k place with	nin governm	nent labora	tories, as v	well as in inc	dustry, depe	nding on the	e munitio	ns. IM soluti	ons were tes	ted on a

Jnite	ed St	tates	Spe	ecia	al Op	erati	ons	Corr	nmar	nd											Date	e: M	arch	20	14		
							R-1	Pro	gran	n El	eme	ent (Nur	nber	/Na	me)		Pro	ject	: (Ni	umb	er/N	ame	e)			
							PE '	1160)481	BB /	I SO	FN	lunit	ions				S80	00/	Mun	ition	s Ac	dvan	ced	Dev	relop	men
	FV	2042				004	4	1		045			EV.	2040				0047	,			040				040	
	FY	2013	5		FY	2014	4			2015)		FY.	2016	-			2017				2018	5			2019	
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
		Inited Si	Inited States	FY 2013 1 2 3 4	Inited States Specia FY 2013 1 2 3 4 1 	Inited States Special Ope	FY 2013 FY 2014 1 2 3 4 1 2 3	FY 2013 FY 2014 1 2 3 4 1 2 3 4	Inited States Special Operations Com R-1 Pro PE 1160 FY 2013 FY 2014 1 2 3 4 1 2 3 4 1	Inited States Special Operations Commar R-1 Program PE 1160481 FY 2013 FY 2014 FY 2 1 2 3 4 1 2 3 4 1 2	Inited States Special Operations Command R-1 Program EI PE 1160481BB FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 Image: state sta	Inited States Special Operations Command R-1 Program Eleme PE 1160481BB / SO FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 4 Image: special Operations Command PE 1160481BB / SO The special Operations Command PE 1160481BB / SO The special Operations Command PE 1160481BB / SO Image: special Operations Command PE 1160481BB / SO Image: special Operations Command PE 1160481BB / SO 1 2 3 4 1 2 3 4 Image: special Operations Command PE 1160481BB / SO Image: special Operations Command PE 1160481BB / SO Image: special Operation Special Operations Command PE 1160481BB / SO Image: special Operation Sp	Inited States Special Operations Command R-1 Program Element (PE 1160481BB / SOF M FY 2013 FY 2014 FY 2015 1 2 3 4 1 2 3 4 1	Inited States Special Operations Command R-1 Program Element (Num PE 1160481BB / SOF Munit FY 2013 FY 2014 FY 2015 FY 2015 1 2 3 4 1 2 3 4 1 2	Inited States Special Operations Command R-1 Program Element (Number PE 1160481BB / SOF Munitions FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 Image: special Operations Command PE 1160481BB / SOF Munitions FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 Image: special Operations (Softward PE 2015) FY 2015 FY 2016 1 2 3 4 1 2 3 Image: special Operations Image: special Operations Image: special Operations Image: special Operations Image: special Operation Special Operations Image: special Operation Special O	Inited States Special Operations Command R-1 Program Element (Number/Name PE 1160481BB / SOF Munitions FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 4	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions FY 2013 FY 2014 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 2 3 4 1 Image: Special Operations Command FY 2013 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 Image: Special Operations Command FY 2013 FY 2015 FY 2016 1 2 3 4 1 2 3 4 1 Image: Special Operation S	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions FY 2013 FY 2014 FY 2015 FY 2016 FY 1 2 3 4 1 2 3 4 1 2	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Pro S80 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 3 4 1 2 3 Image: Second Se	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project S800 / A FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1 2 <td>Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Nu S800 / Munitions FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1</td> <td>Date Date R-1 Program Element (Number/Name) Project (Number/Same) PE 1160481BB / SOF Munitions Project (Number/Same) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2 1 2 3 4 1 2 3 4 1 2 Image: Second Colspan="6">Second Colspan="6"Second Colspan="6">Second Colspan="6"Second"<</td> <td>Date: Monited States Special Operations Command Date: M R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/N S800 / Munitions Addressed FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 Image: Special Operations FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 Image: Ima</td> <td>Date: March Date: March R-1 Program Element (Number/Name) Project (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advant FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3</td> <td>Date: March 201 R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advanced FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 <</td> <td>Date: March 2014 Project (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 1 2 3 4 1 2 3</td> <td>Date: March 2014 R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advanced Develop FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4</td>	Inited States Special Operations Command R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Nu S800 / Munitions FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 1 2 3 4 1	Date Date R-1 Program Element (Number/Name) Project (Number/Same) PE 1160481BB / SOF Munitions Project (Number/Same) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2 1 2 3 4 1 2 3 4 1 2 Image: Second Colspan="6">Second Colspan="6"Second Colspan="6">Second Colspan="6"Second"<	Date: Monited States Special Operations Command Date: M R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/N S800 / Munitions Addressed FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 Image: Special Operations FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 Image: Ima	Date: March Date: March R-1 Program Element (Number/Name) Project (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advant FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3	Date: March 201 R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advanced FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 <	Date: March 2014 Project (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2 1 2 3 4 1 2 3	Date: March 2014 R-1 Program Element (Number/Name) PE 1160481BB / SOF Munitions Project (Number/Name) S800 / Munitions Advanced Develop FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 1 2 3 4

hibit R-4A, RDT&E Schedule Details: PB 2015 United	States Special Operations Commar	nd		Date: Marcl	h 2014
propriation/Budget Activity 00 / 7	R-1 Program PE 1160481BI	Element (Number 3 / SOF Munitions	/Name)	Project (Number/Nam S800 / Munitions Advar	e) nced Development
	Schedule Details	6			
		Sta	art	En	d
Events by Sub Proje	ect	Quarter	Year	Quarter	Year
Non-Standard Materiel					
Purchase Test Articles		2	2013	2	2015
Evaluation of Insensitive Munitions (IM)		L			
Evaluation of IM		2	2013	4	2015
Testing of IM		I			
Testing of IM		2	2013	4	2015
				(

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Exhibit R-2, RDT&E Budget Item	n Justificat	i on: PB 201	15 United S	tates Speci	al Operation	ns Commar	nd			Date: Marc	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, Te Operational Systems Development	BA 7:	R-1 Progr a PE 116048	am Elemen 32BB / SOF	t (Number/ Rotary Win	Name) g Aviation							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2019	Cost To Complete	Total Cost			
Total Program Element	170.648	25.166	-	-	-	-	-	-	-	-	-	195.814
D615: SOF Rotary Wing Aviation	170.648	25.166	-	-	-	-	-	-	-	-	-	195.814

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

<u>Note</u>

В.

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.

Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	24.430	-	-	-	-
Current President's Budget	25.166	-	-	-	-
Total Adjustments	0.736	-	-	-	-
 Congressional General Reductions 	-2.155	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.032	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	3.660	-			
SBIR/STTR Transfer	-0.737	-			

Change Summary Explanation

FY 2013: Net increase of \$0.736 million is due to sequestration reductions (-\$2.155 million), congressional rescission (-\$0.032 million), an increase for a reprogramming to support additional flight testing for the MH-60 Modernization program (\$3.660 million), and a transfer of funds to Small Business Innovative Research (-\$0.737 million).

Appropriation/Budget ActivityR-1 Program0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7:PE 1160482EOperational Systems DevelopmentPE 1160482E	Element (Number/Name) BB / SOF Rotary Wing Aviation
Sequestration Impacts: Delays the A/MH-6M by one month and requires additional fu engine barrier filter efforts to accommodate the available FY 2013 funds. The impact	nding at the end of the program. The MH-47G program had to de-scope of the reduction requires additional funding at the end of the program.
Schedule: None.	
Technical: None.	

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 U	Inited State	s Special O	perations C	Command				Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116048	am Elemen 32BB / SOF	t (Number / Rotary Win	Name) g Aviation	Project (N D615 / SO	umber/Nan F Rotary W	ne) ing Aviation	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
D615: SOF Rotary Wing Aviation	170.648	25.166	-	-	-	-	-	-	-	-	-	195.814
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This project 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 effort will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade Non-Developmental Item/Commercial Off-The-Shelf (NDI/COTS) will replace obsolescent components and provide improved battlefield situational awareness to the aircrews and customers necessary to support time sensitive mission requirements. This upgrade is critical in keeping A/MH-6M aircraft in the fight through the 2020's and likely beyond until a suitable replacement aircraft is available. The non-recurring effort supports development, fabrication of test hardware, qualification of components and system data items to support issuance of Government airworthiness releases for structural and software modifications.

• MH-47 Modifications and Upgrades 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.

• 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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: A/MH-6M Block 3.0 Upgrade	11.516	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justi	fication: PB	2015 United	I States Spe	cial Operatic	ons Commar	nd			Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 P I PE 11	rogram Eler 60482BB / S	nent (Numb SOF Rotary V	e r/Name) Ving Aviation	Project D615 / S	(Number/N SOF Rotary	ame) Wing Aviatio	n
B. Accomplishments/Planned Prog	grams (\$ in I	<u>Millions)</u>							FY 2013	FY 2014	FY 2015
Continued development of cockpit up	ogrades, imp	roved rotor s	systems, and	d upgrades to	o airframe.						
Title: MH-47 Modifications and Upgra	ades								2.699	-	-
FY 2013 Accomplishments: Completed ANC technology demons development of the Engine Barrier Fi	tration and co Iter for the M	ontinued dev IH-47G.	elopment of	f the APAS to	echnology fo	or the MH-47	G. Began				
Title: MH-60 SOF Modernization Pro	gram								5.528	-	-
FY 2013 Accomplishments: Continued systems engineering and	platform inte	gration effor	ts to include	flight and qu	alification te	sting and tes	t support.				
Title: Degraded Visual Environment	(DVE)								5.423	-	-
FY 2013 Accomplishments: Initiated development, integration, an	nd testing of I	DVE sensors	s solution wit	th avionics b	ackbone for	ARSOA plat	orms.				
				Accor	nplishment	s/Planned P	ograms Sul	ototals	25.166	-	-
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
			FY 2015	FY 2015	FY 2015		EV 0047			Cost To	Total Orat
• PROC/0201RWUPGR: Rotary Wing Upgrades and Sustainment	74.733	<u>FY 2014</u> -	<u>Base</u> -	<u>000</u> -	<u>10tai</u> -	<u>FY 2016</u> -	<u>FY 2017</u> -	<u>FY 2018</u> -	<u>FY 2018</u> -	<u>Complete</u> -	<u>Iotal Cost</u> -
D. Acquisition Strategy											

• A/MH-6M Block 3.0 Upgrade comprises 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 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 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-47 Modifications and Upgrades - These efforts develop technologies to improve performance and safety of the MH-47G and decrease operational costs. Efforts include the APAS, ANC, and Engine Barrier Filter. This effort will consist mostly of Government executed integration, testing, and qualification efforts with some analytical engineering services to be procured. Because of proprietary considerations, efforts may be directed to the original equipment manufacturer.

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special O	perations Command		Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 7	PE 1160482BB / SOF Rotary Wing Aviation	D615 / SO	F Rotary Wing Aviation

• 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. Contractor Flight test support will be conducted at the SOFSA by the incumbent contractor.

• 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 which will procure, integrate and install components to provide real time "see through" imagery and heads up display of visual cues for obstacle avoidance and landing zone information during all phases of flight. DVE will increase MH-60 and MH-47 aircrew and customer survivability in a DVE.

E. Performance Metrics

N/A

					- 1		- 6			_						_				1_				-					
ppropriation/Budget Activity									R-1	Pro	gra	m E	Elemo	ent	(Nui	nber	/Na	me)		Pro	ojec	t (N	umb	er/N	lame	e)			
400 / 7									PE	116	0482	2BB	SISC	DF F	Rotai	'y Wi	ng A	Viat	tion	D6	15 <i>I</i>	SO	FRC	otary	Win	ig A	viatio	on	
	[E)	/ 20	12			EV	201			EV	204	5		EV	2016		1	EV	204	7		EV	2010		1	EV	2010	<u> </u>
				0		4		2014	+			201	5	-		2010				2017				2010				2019	,
	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	1	2	3	4
A/MH-6M Block 3.0 Development/Qualification/ Testing																													
MH-47G Low Cost Mods Qualification/Testing																													
MH-60 SOF Modernization Program Qualification/Testing																													-
MH-60 SOF Modernization Program Qualification/Testing (Continuation) Block 1																													
DVE																													

khibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Comm	and		Da	Date: March 2014						
opropriation/Budget ActivityR-1 Program100 / 7PE 1160482	R-1 Program Element (Number/Name)ProjectPE 1160482BB / SOF Rotary Wing AviationD615 / S									
Schedule Deta	ils									
	Sta	art	End							
Events	Quarter	Year	Qua	arter	Year					
A/MH-6M Block 3.0 Development/Qualification/Testing	2	2013	2	2	2014					
MH-47G Low Cost Mods Qualification/Testing	4	2013	4	4	2014					
MH-60 SOF Modernization Program Qualification/Testing	1	2013	4	4	2013					
MH-60 SOF Modernization Program Qualification/Testing (Continuation) Block 1	1	2014	4	4	2014					

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Exhibit R-2, RDT&E Budget Iter	m Justificat	ion: PB 20 ⁻	15 United S	tates Speci	al Operatior	ns Comman	d			Date: Marc	ch 2014	
Appropriation/Budget Activity 0400: Research, Development, To Operational Systems Developme	ēst & Evalua nt	ation, Defen	se-Wide I B	SA 7:	R-1 Progra PE 116048	am Elemen 33BB / <i>Marit</i>	t (Number/ time System	Name) as				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	136.135	66.263	28.534	57.905	-	57.905	19.624	13.214	7.543	7.340	Continuing	Continuing
S0417: Underwater Systems	136.135	66.263	22.849	45.823	-	45.823	10.955	8.261	3.070	4.947	Continuing	Continuing
S1684: Surface Craft	0.000	-	5.685	12.082	-	12.082	8.669	4.953	4.473	2.393	Continuing	Continuing
MDAD/MAIS Codo												

MDAP/MAIS Code:

Other MDAP/MAIS Code(s): ont

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

<u>Note</u>

Beginning in FY 2014 Maritime Systems represents the approved consolidation of Special Operations Forces (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 (COTS) 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. This program received a FY 2013 Congressional Add.

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. 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 2015 U	nited States Spec	cial Operations Co	mmand	Date:	March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-W Operational Systems Development	<i>Vide I</i> BA 7:	R-1 Program El PE 1160483BB	ement (Number/Name) / Maritime Systems)	
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	26.405	18.325	43.795	-	43.795
Current President's Budget	66.263	28.534	57.905	-	57.905
Total Adjustments	39.858	10.209	14.110	-	14.110
 Congressional General Reductions 	-5.866	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.098	-			
 Congressional Adds 	49.000	-			
 Congressional Directed Transfers 	-	11.156			
Reprogrammings	-2.500	-			
SBIR/STTR Transfer	-0.678	-0.947			
 Other Adjustments 	-	-	14.110	-	14.110

Change Summary Explanation

Funding:

FY 2013: Net increase of \$39.858 million is due to sequestration reductions (-\$5.866 million), congressional rescissions (-\$0.098 million), congressional add for Dry Combat Submersible (\$35.000 million) and congressional transfer from procurement for Shallow Water Combat Submersible (\$14.000 million), a reprogramming to higher command priorities (-\$2.500 million), and a transfer of funds to Small Business Innovative Research (-\$0.678 million).

Sequestration Impacts: Delays development efforts for Next Generation Combatant Craft Forward Looking Infrared (CCFLIR), Next Generation Surface System studies, and increases weapons and communications integration risk onto surface programs. Reduces test support for undersea programs.

FY 2014: Net increase of \$10.209 million is due to congressional transfer from procurement for Shallow Water Combat Submersible (\$10.000 million), a congressional transfer from procurement for Next Generation CCFLIR (\$1.156 million) and a transfer of funds to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) of (-\$.947 million).

FY 2015: Increase of \$14.110 million supports the product development of Underwater Systems programs.

Schedule: Delays in Shallow Water Combat Submersible Block 1 design challenges by prime contractor resulted in a program schedule slip.

Technical: None.

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 U	Inited States	s Special O	perations C	Command				Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116048	am Elemen 33BB / <i>Marit</i>	t (Number /l ime System	Name) Is	Project (N S0417 / Ur	umber/Nan aderwater S	n e) ystems	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S0417: Underwater Systems	136.135	66.263	22.849	45.823	-	45.823	10.955	8.261	3.070	4.947	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

This project provides for 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 (SWCS) 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 (DDS), 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 components and vehicles for test and evaluation and operational assessment.

• SWCS (Block 1): This project provides for the engineering, manufacturing, and development of one Engineering Development Model (EDM) to replace the SEAL Delivery System, (SDV). The EDM is being developed due to obsolescence of the SDV system. This project will utilize mature technologies, which include electric propulsion along with upgraded navigation, communication, and sensor suites. It also provides for integration efforts with the current DDS and other diving technologies to meet SOF requirements.

• Dry Combat Submersible (DCS): This project provides for the advanced engineering, manufacturing, and qualification efforts for a SOF DCS System. Current efforts are using commercial dry submersible technology to assess submersible capabilities and reduce risk in a future DCS program. The DCS is planned to operate from surface ships and potentially a future large submarine shelter. User Operational Evaluations of two commercially built dry submersible prototypes are being manufactured and tested, as well as evaluation of a third leased vehicle. Significant risk reduction initiatives were added in FY 2013 which will allow for validation of test processes and commercial classification processes, as well as test and integration concepts for improved power and energy sources and emergent technologies. Technologies include, but are not limited to Safe Li-Ion batteries, Silver Zinc batteries, Improved Sonar Systems, advanced battery management system, and a three-dimensional Electro Optical Infrared (EO/IR) Periscope.

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Na		
040077 PE 1160483BB7 Maritime Systems S04177 Underwater	Systems	
 Dry Deck Shelter (DDS): This project provides for an analysis of alternatives for Undersea Clandestine Insertion (UCI) of SOF forces for next g development and pre-planned product improvements, testing, and integration of specialized underwater systems to meet the unique requirements compatibility with the submarine fleet. The current DDS is a certified diving system which attaches to modified host submarines that provides for in and platforms. Future needs may include conducting product improvement efforts for the current DDS, as well as associated diver equipment for i support systems, unmanned underwater vehicles, and diver equipment and follow on development effort for next generation system. 	eneration sy of SOF, and nsertion of S in-service su	stem d OF forces lbmarine
B. Accomplishments/Planned Programs (\$ in Millions) FY 2013	FY 2014	FY 2015
Title: SWCS (Block 1) 19.703	12.844	11.801
FY 2013 Accomplishments: Conducted Critical Design Review for the SWCS and completed program rebaseline.		
FY 2014 Plans: Complete design and manufacturing of Engineering Development Model (EDM).		
FY 2015 Plans: Engineering Development Model (EDM) continues into the system-level development testing program phases.		
Title: Dry Combat Submersibles (DCS) 45.411	10.005	34.022
FY 2013 Accomplishments: Completed Phase I, Concept Design, and contract award for Phase II, Design and Build of User Operational Evaluation System (UOES) 3. Continued design and build efforts for UOES2. Initiated efforts to lease a commercial vehicle, the S301I for technical analysis and engineering evaluation to refine and validate SOF Embarkation Authority; commenced development of engineering and early operational assessment processes of test team and facilities; commenced development of UOES test strategy; commenced assessment of government furnished equipment maturity and SOF training and qualification for DCS. Procured power and energy technologies for risk reduction for DCS.		
FY 2014 Plans: Continue to design, construct, and test of commercial prototype submersibles. Initiate developmental test on UOES3.		
FY 2015 Plans: Commences developmental testing of UOES2 and Early Operational Assessment of UOES2 & 3. Continues development of acquisition documentation for MS B/C.		
Title: Dry Deck Shelter (DDS) 1.149	-	-
FY 2013 Accomplishments: Continued the UCI of SOF Analysis of Alternatives (AOA) for Large Volume Submarine Hosts and Submarine Large Ocean Interfaces to replace the DDS.		
Accomplishments/Planned Programs Subtotals 66.263	22.849	45.823

Exhibit R-2A, RDT&E Project Justi	Date: March 2014										
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 110	ogram Elen 60483BB / <i>N</i>	Number/Na Inderwater	nber/Name) erwater Systems				
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
			<u>FY 2015</u>	FY 2015	FY 2015				=)/ 00/0	Cost To	
Line Item	FY 2013	FY 2014	Base	000	Iotal	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Iotal Cost
PROC 1: Underwater Systems	5.936	15.439	25.459	-	25.459	67.124	21.083	51.419	50.948	Continuing	Continuing
Remarks											

D. Acquisition Strategy

• SWCS (Block 1) used full and open competition, with a down select to a single contractor. The full spectrum of contracting activities is being utilized for any integration and subsystem requirements, using existing contracts where appropriate, government agencies and new contracts as necessary.

• DCS used Broad Agency Announcements for Research and Development contracts leveraging commercial technologies, practices and standards to design, build, test and deliver developmental vessels to refine and validate potential key performance parameters and attributes for the DCS requirements baseline. A combined MS B/C for a production contract in FY 2016 is planned. The full spectrum of contracting activities is being utilized for risk reduction efforts, using existing contracts where appropriate, government agencies and new contracts as necessary.

• DDS: An AoA strategy will utilize a combination of in-house work, other government agency support, and /or existing contracts.

E. Performance Metrics

N/A

hibit R-4, RDT&E Schedule Profile: PB 2015 U	nitec	l Sta	ates	Spe	ecial	Opei	ratio	ns Co	omr	mand											D	ate	: Ma	arch	201	14		
propriation/Budget Activity 00 / 7							F F	R-1 P PE 11	rog 604	ram 183BE	Elem 3 / M	ent arit	t (Nı ime	umt Sys	er/N tems	am	e)	P S	roje 041	ect (7 / L	Nun Jnde	nbe erwa	e r/Na ater	ame Sys) terr	าร		
		FY 2	2013	}	F	FY 2	014		F	Y 20	15		F١	Y 20	16		F`	Y 20	17		F	Y 20	018			FY	2019	9
	1	2	3	4	1	2	3	4	1	2 3	8 4	1	1 2	2	3 4	L I	1 🗍	2 3	3 4	4	1	2	3	4	1	2	3	4
Shallow Water Combat Submersible (Block 1)											·												·				- -	
Engineering & Manufacturing Development																												
Developmental Test																												
Operational Test																												
Milestone C																												
Dry Combat Submersibles																												
Analysis, Component Development and Prototypes																												
Developmental Test																												
Early Operational Assessment																												
Milestone B/C																												
Dry Deck Shelter																												
Undersea Clandestine Insertion of SOF Analysis of Alternatives																												

hibit R-4A, RDT&E Schedule Details: PB 2015 United States Special (Operations Command		Date: March	า 2014
propriation/Budget Activity 00 / 7	R-1 Program Element (Numbe PE 1160483BB <i>I Maritime Syste</i>	e r/Name) ems	Project (Number/Name S0417 / Underwater Sy	e) stems
	Schedule Details			
	St	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
Shallow Water Combat Submersible (Block 1)				
Engineering & Manufacturing Development	1	2013	3	2016
Developmental Test	2	2013	3	2016
Operational Test	3	2016	4	2016
Milestone C	4	2015	4	2015
Dry Combat Submersibles			/	
Analysis, Component Development and Prototypes	1	2013	1	2015
Developmental Test	1	2015	3	2015
Early Operational Assessment	3	2015	1	2016
Milestone B/C	4	2015	2	2016
Dry Deck Shelter		1		
Undersea Clandestine Insertion of SOF Analysis of Alternatives	1	2013	2	2014

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 L	Jnited State	s Special O	perations C	Command				Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 7					R-1 Progra PE 116048	am Elemen t 33BB <i>I Marit</i> i	t (Number /l ime System	Name) Is	Project (N S1684 / Sι	umber/Nan Irface Craft	ne)	
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S1684: Surface Craft	-	-	5.685	12.082	-	12.082	8.669	4.953	4.473	2.393	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: ont												
#												

[#] The FY 2015 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. 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) replaces the current rigid inflatable boat (RIB) and the MKV (Retired in FY12). This 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.

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. The current solution for Combatant Craft Heavy is the Sea, Air, and Land Insertion, Observation and Neutralization (SEALION) that was developed as an advanced technology demonstrator by the United States Navy and has been modified and tested for transition to SOF operations. The CCH will provide medium range insertion capability for SOF personnel in a low to high threat environment. Additional studies may be performed to support analysis of SOF-peculiar needs for an Afloat Forward Staging Base to command, control, sustain, launch and recover Joint SOF.

The Next Generation Combat Craft Forward Looking Infrared Radar (CCFLIR) Program provides SOF with day/night, 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.

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 correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analyses of alternatives, pre-developmental risk reduction, and engineering analyses. Demonstrations and modifications may be made to support emerging capability enhancements such as but not limited to, Maritime

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special	Operations Command	Da	ate: N	1arch 2014	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160483BB / Maritime Systems	Project (Num S1684 / Surfa	ber/N	Name) raft	
Craft Air Deliverable System BLOCK II, weapons mounts, sensors, enhanced support of future missions. Solutions may be Commercial-Off-The-Shelf (CO	communications and navigation subsystems, TS) solutions, other agency solutions or new so	and other mino plutions.	r moc	lifications to c	raft in
B. Accomplishments/Planned Programs (\$ in Millions)		FY 20	13	FY 2014	FY 2015
Title: Combatant Craft Medium (CCM)			-	3.296	4.898
FY 2014 Plans: Integrate newest weapon and sensor technologies into the CCM craft.					
FY 2015 Plans: Completes Operational Testing and continues development and integration of awareness systems.	sub-systems including weapons and situation	al			
Title: Combatant Craft Heavy (CCH)			-	0.750	2.215
FY 2014 Plans: Continue studies with craft design, development, and testing. Continue to test field an operational craft.	SEALION and perform modifications necessar	y to			
FY 2015 Plans: Continues development and integration of advanced technologies including si navigation, communication.	tuational awareness, survivability, weapons,				
Title: Next Generation Combatant Craft Forward Looking Infrared Radar (CCF	FLIR)		-	1.328	1.799
FY 2014 Plans: Complete market research and initiate plans to develop, test, and evaluate co Generation CCFLIR systems. Develop acquisition strategy and initiate program prototypes.	mmercial-off-the-shelf (COTS) solution for Nex m with plan to incrementally fund purchase of	t			
FY 2015 Plans: Continues required documentation and completes purchase of up to three pro testing, plans and initiates integration with combatant craft systems.	totype units for development testing. Conduct	3			
Title: Next Generation Surface System (NGSRF)			-	0.311	3.170
FY 2014 Plans: Initiate studies and advanced technology development, conduct risk reduction solutions for next generation of combatant craft systems and subsystems.	activities, and refine requirements and potenti	al			
FY 2015 Plans: Identifies and evaluates candidate solutions for capability enhancements and and plans, technology development efforts via Cooperative Research and Dev	insertion into Combatant Craft Systems. Priorit velopment Agreements, SBIR, and JCTD. Cor	izes ducts			

Exhibit R-2A, RDT&E Project Jus	stification: PB	2015 United	States Spe	cial Operatic	ons Commar	nd			Date: N	larch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 P I PE 11	r ogram Ele 60483BB / /	m <mark>ent (Numb</mark> Maritime Sys	er/Name) tems	Projec S1684	ct (Number/N I Surface Ci	lame) raft	
B. Accomplishments/Planned Pr	ograms (\$ in N	<u>/lillions)</u>						Γ	FY 2013	FY 2014	FY 2015
technology demonstration and dev and technologies such as, but not signatures, and shock and vibratio	elopment for th limited to: Marit n systems.	e advancem time Craft Ai	nent/enhance r Delivery Sy	ement of SO ystem Block	F Combatar II, Weapons	nt Craft Syste integration,	ems, subsys survivability	tems, ,			
				Accor	nplishment	s/Planned P	rograms Sເ	ubtotals	-	5.685	12.082
C. Other Program Funding Summ	nary (\$ in Milli	ons <u>)</u>									
Line Item • PROC 1: Combatant Craft Svstems	<u>FY 2013</u>	FY 2014 32.753	FY 2015 Base 51.937	<u>FY 2015</u> <u>OCO</u> -	FY 2015 Total 51.937	<u>FY 2016</u> 42.750	<u>FY 2017</u> 66.595	FY 201 11.69	8 FY 201 02 17.27	Cost To 9 Complete 0 Continuing	Total Cost Continuing
Remarks N/A											
D. Acquisition Strategy CCM acquisition strategy is a com to design, build and deliver test art for production, engineering suppor developmental COTS/Governmen	petition using a ticles. Phase II rt and contracto t-Off-The-Shelf	a two-phase will select a pr logistic su craft.	source selec single vend pport. Acqui	ction process lor to provide isition strates	s. Phase I ir a fully integ gies for othe	nvolved a Sm grated baseli r craft may b	nall Business ne craft syst e based on	s Set-Asid em for tes the rapid	le competitio st and evalua acquisition o	n for two ven ation with option f available no	dors ons n-
CCH acquisition strategy is to tran testing will be completed before fie for engineering experts. Feasibility requirements for other CCH variar	isition the two a elding the SEAI / studies will co hts.	dvanced teo ION craft in ntinue in-ho	chnology cra FY 2014. Tl use with sup	ft from Navy hese efforts port from otl	to SOF ope will be perfo ner governm	rations. SOF rmed in-hous nent agencies	modificatio se with some s or existing	ns are be e support contract s	ing performe from other g services to p	d and operati overnment ag ursue SOF-pe	onal encies eculiar
Sole source contract was awarded procure additional craft in future ye	d with original e ears.	quipment m	anufacturer	for developm	nental modif	ication to SE	ALION. Dev	eloping lo	ong term sust	ainment strat	egy to and
Next Generation CCFLIR acquisiti systems.	on strategy will	conduct full	and open co	ompetition fo	or next gene	ration systen	ns to suppor	t the Com	ibatant Craft	Assault, CCN	1 and CCH
NGSRF will provide for efforts of te acquisition strategies available wh	echnology inse ile applying Be	rtion and up tter Buying F	grades of cra Power praction	aft systems, ces.	subsystems	, and future o	craft acquisit	ion plann	ing. This eff	ort will consid	er all

Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special	Operations Command	Date: March 2014
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160483BB / Maritime Systems	Project (Number/Name) S1684 / Surface Craft
E. Performance Metrics		
N/A		

xhibit R-4, RDT&E Schedule Profile: PB 2015	United St	ates Sp	ecial O	peratio	ns Co	mman	d									Date	: Ma	rch 20	014		
ppropriation/Budget Activity 400 / 7				F F	R-1 Pr PE 116	ogram 60483E	Elem 3B / <i>M</i>	ent laritir	(Nui ne S	mber Syster	/ Nan ns	ne)	Pro S1	ojec t 684	t (Nu I Suri	mbe face	e r/Na Crai	i me) ft			
	FY	2013	FY	2014		FY 20	015		FY	2016		F١	(201	7	F	Y 2	2018		FY	2019	
Combatant Craft Medium	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 1	2	3	4
Developmental Test/Operational Test																					
Proposal, Source Selection & Final Down Select														_							
Low Rate Initial Production																					
Operational Evaluation																					
Initial Operational Capability																					
Weapons Development, Survivability																					
Combatant Craft Heavy																					
Refurbish SEALION II																					
Test and Evaluation																					
Fielding & Deployment Release																					
C4I and Weapons Integration																					
Next Generation FLIR																					
Risk Reduction Activities																					
Program Planning & Documentation																					
Market Research																					
Request for Proposal																					
Development Down Select/Test																					
Production Award																					
Next Generation Surface Systems																					
Risk Reduction Activities																					
Market Research																					
Prioritize/Plan NG Technologies																					
Subsystem Development																					

Exhibit R-4, RDT&E Schedule Profile: PB 20	15 Ur	nited	d Sta	ates	Spe	ecia	l Op	erati	ons	Con	nma	and											Dat	e: M	arch	1 20 ⁻	14		
Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project (Num0400 / 7PE 1160483BB / Maritime SystemsS1684 / Surface													ımb rfac	er/N	ame aft	e)													
		FY 2013 FY 20					2014	014 FY 2015					FY 2016					FY 2	2017			FY	2018	3		FY 2	2019		
		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
Integration																													
Technology Development																													

ibit R-4A, RDT&E Schedule Details: PB 2015 United States Spec	cial Operations Command		Date: Marc	h 2014
0 / 7	R-1 Program Element (Numbe PE 1160483BB / Maritime Syste	r/Name) ems	Project (Number/Nam S1684 / Surface Craft	ie)
	Schedule Details			
	St	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Combatant Craft Medium				
Developmental Test/Operational Test	4	2013	1	2014
Proposal, Source Selection & Final Down Select	1	2013	2	2014
Low Rate Initial Production	2	2014	1	2015
Operational Evaluation	2	2015	3	2015
Initial Operational Capability	3	2015	3	2015
Weapons Development, Survivability	2	2014	4	2018
Combatant Craft Heavy				
Refurbish SEALION II	1	2013	4	2013
Test and Evaluation	4	2013	2	2014
Fielding & Deployment Release	2	2014	2	2014
C4I and Weapons Integration	1	2014	4	2019
Next Generation FLIR				
Risk Reduction Activities	3	2014	1	2015
Program Planning & Documentation	2	2014	4	2016
Market Research	2	2014	3	2014
Request for Proposal	4	2014	4	2014
Development Down Select/Test	1	2014	3	2016
Production Award	3	2016	3	2016
Next Generation Surface Systems				
Risk Reduction Activities	2	2014	4	2019
Market Research	2	2014	4	2019
Prioritize/Plan NG Technologies	2	2014	4	2019

Exh	ibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Ope	R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command										
App 040	propriation/Budget Activity 0 / 7	Element (Numbe B <i>I Maritime Syste</i>	r/Name) ems	Projec S1684	ct (Number/Nan I Surface Craft	ne)						
			St	art		E	nd					
	Events by Sub Project		Quarter	Year		Quarter	Year					
	Subsystem Development		3	2014		1	2019	7				
	Integration		4	2015		4	2019					
	Technology Development		4	2014		4	2019					

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Exhibit R-2, RDT&E Budget Iten	n Justificat	ion: PB 20′	15 United S	ns Commar	ıd			Date: March 2014				
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Progr a PE 116048	am Elemen 34BB / SOF						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	48.083	7.713	-	-	-	-	-	-	-	-	-	55.796
S1684: Surface Craft	48.083	7.713	-	-	-	-	-	-	-	-	-	55.796

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

Note

Beginning in FY 2014 Program Element (PE) 1160484BB has been consolidated into SOCOM PE 1160483BB, SOF Maritime 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 2013</u>	<u>FY 2014</u>	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	8.573	-	-	-	-
Current President's Budget	7.713	-	-	-	-
Total Adjustments	-0.860	-	-	-	-
 Congressional General Reductions 	-0.585	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-0.012	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-0.263	-			

Change Summary Explanation

Funding:

FY 2013: Decrease of \$0.860 million is due to sequestration reductions (-\$.585 million), congressional rescissions (-\$0.012 million), and a transfer of funds to Small Business Innovative Research (-\$0.263 million).

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	ecial Operations Command	Date: March 2014
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160484BB / SOF Surface Craft	
Sequestration Impacts: Reduced risk reduction for communications s	systems for the combatant craft and increased integra	tion risk onto the platform.
Schedule: None.		
Technical: None.		
PE 1160/8/BB: SOE Surface Craft	INCLASSIFIED	

Exhibit R-2A, RDT&E Project Ju	hibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations CommandDate: March 2014Date: March 2014														
Appropriation/Budget Activity 0400 / 7	umber/Name) urface Craft														
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
S1684: Surface Craft	48.083	7.713	-	-	-	-	-	-	-	-	-	55.796			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

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

A. Mission Description and Budget Item Justification

This project provides for 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) replaces the current rigid inflatable boat (RIB) and the MKV (retired in FY12). This 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.

• 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. The current solution for Combatant Craft Heavy is the Sea, Air, and Land Insertion, Observation and Neutralization (SEALION) that was developed as an advanced technology demonstrator by the United States Navy and has been modified and tested for transition to SOF operations. The CCH will provide medium range insertion capability for SOF personnel in a low to high threat environment. 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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: CCM	5.492	-	-
FY 2013 Accomplishments: Completed build and contractor testing; conducted operational testing of delivered test articles.			
Title: CCH	2.221	-	-
FY 2013 Accomplishments: Completed installation of Command, Control, Communications, Computers, and Intelligence systems onto SEALION II.			
Accomplishments/Planned Programs Subtotals	7.713	-	-

Exhibit R-2A, RDT&E Project Just	tification: PB	2015 United	States Spec	cial Operatio	ns Comman	d			Date: Ma	rch 2014	
Appropriation/Budget Activity 0400 / 7				R-1 Pr PE 11	r ogram Ele r 60484BB / S	nent (Numb SOF Surface	er/Name) Craft	Project (N S1684 / S	lumber/Na urface Crat	me) 7	
C. Other Program Funding Summ	ary (\$ in Milli	ons <u>)</u>	<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
Line Item	<u>FY 2013</u>	<u>FY 2014</u>	Base	000	<u>Total</u>	<u>FY 2016</u>	FY 2017	FY 2018	<u>FY 2019</u>	<u>Complete</u>	Total Cost
 PROC 1: Combatant 	38.655	-	-	-	-	-	-	-	-	-	-
Craft Systems											
Remarks											

D. Acquisition Strategy

• CCM 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 COTS/government-off-the-shelf craft.

• CCH acquisition strategy is to transition the two advanced technology craft from the Navy to SOF operations. SOF modifications are being performed on the original equipment and will beperformed by in-house manufacturers, other government agencies or with existing contract services. Sole source contract was awarded with original equipment manufacturer for developmental modifications to SEALION.

E. Performance Metrics

N/A

hibit R-4, RDT&E Schedule Profile: PB 201	5 Uni	ted S	tates	Spe	ecial	Оре	eratio	ons	Con	nmar	nd											Date	e: Ma	arch	20	14		
ppropriation/Budget Activity 00 / 7	ropriation/Budget Activity								R-1 Program Element (Number/Name) PE 1160484BB / SOF Surface Craft									Project (Number/Name) S1684 / Surface Craft										
		FY	2013	}		FY 2	2014			FY 2	2015			FY	2016	;		FY	2017	7		FY	2018	,		FY 2	2019	•
		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
Combatant Craft Medium																												
Proposals, Source Selection & Contract Award & Final Down Select																												-
Build Competitive Prototypes																												•
Developmental Test/Operational Test																												-
Low Rate Initial Production																												•
Operational Evaluation																												-
Initial Operational Capability																												-
Weapons Development, Survivability																												
Combatant Craft Heavy																												-
Refurbish + Test + Evaluation																												-
Fielding and Deployment Release																												
C4I and Weapons Development																												-

nibit R-4A, RDT&E Schedule Details: PB 2015 United States Special O	RDT&E Schedule Details: PB 2015 United States Special Operations Command I/Budget Activity R-1 Program Element (Number/Name) P PE 1160484BB / SOF Surface Craft S						
propriation/Budget Activity 00 / 7	R-1 Program PE 1160484B	Element (Number B / SOF Surface C	r/ Name) traft	Project (Number/Name) S1684 / Surface Craft			
S	Schedule Detail	S					
		Sta	art	E	nd		
Events by Sub Project		Quarter	Year	Quarter	Year		
Combatant Craft Medium							
Proposals, Source Selection & Contract Award & Final Down Select		1	2013	2	2014		
Build Competitive Prototypes		1	2013	4	2013		
Developmental Test/Operational Test		3	2013	4	2013		
Low Rate Initial Production		2	2014	1	2015		
Operational Evaluation		2	2015	3	2015		
Initial Operational Capability		3	2015	3	2015		
Weapons Development, Survivability		2	2014	4	2018		
Combatant Craft Heavy				· · · · · · · · · · · · · · · · · · ·			
Refurbish + Test + Evaluation		3	2013	1	2014		
Fielding and Deployment Release		2	2014	2	2014		
C4I and Weapons Development		1	2014	4	2015		

Exhibit R-2, RDT&E Budget Ite	em Justificat	ion: PB 20 ⁻	15 United S	tates Speci	al Operatio	ns Commar	nd			Date: Mar	ch 2014	
Appropriation/Budget Activity 0400: <i>Research, Development,</i> <i>Operational Systems Development</i>	Test & Evalua ent	ation, Defen	se-Wide I E	BA 7:	R-1 Progr PE 116048	am Elemer 39BB / <i>Glob</i>	n t (Number / bal Video Su	Name) rveillance A	Activities	1		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	31.959	6.999	3.304	3.788	-	3.788	3.186	2.903	3.240	3.901	Continuing	Continuing
S500C: Global Video Surveillance Activities	31.959	6.999	3.304	3.788	-	3.788	3.186	2.903	3.240	3.901	Continuing	Continuing
[#] The FY 2015 OCO Request v	vill be submit	ted at a late	r date.	I			1		1		1	I
A Mission Description and Ru	idant Itom li	untification										
A. MISSION Description and Bu	the Military I	atelligence	Program D	otaile aro n	rovided und	lor conarate	cover					
			riogram. D							~~		4-1
B. Program Change Summary	(\$ in Million	<u>s)</u>		<u>FY 2013</u>	<u>FY 20</u>	<u>14 1</u>	- 1 2015 Ba	<u>se</u>	<u>FY 2015 O</u>		FY 2015 10	<u>otal</u>
Previous President's Bud	dget			7.620	3.30)4 24	6.5	99		-	6.	599
Current President's Budg	get			0.999	3.30	J4	3.7	88 4 4		-	3.	/ 88 244
	Conoral Pod	uctions		-0.021		-	-2.0	11		-	-2.0	
Congressional	Directed Rec	luctions		-0.011		-						
Congressional	Rescissions			-0.010		_						
Congressional	Adds			-		-						
Congressional	Directed Trai	nsfers		-		-						
Reprogrammin	as			-		-						
SBIR/STTR Tra	ansfer			-		-						
Other Adjustme	ents			-		-	-2.8	11		-	-2.8	311
Change Summary Expl Funding: FY2013: Net decrease of	l <u>anation</u> of -\$0.621 mil	lion is due t	o sequestra	ation reduct	ions (-0.61 ⁻	l million) ar	nd congressi	onal rescis	sions (-\$0.0	10 million).		
			·		·	,	-			,		
FY2014: None.												
FY2015: Decrease of -\$	2.811 million	is due to a	realignmen	t to higher o	command p	riorities.						
Schedule: None.												
Technical: None.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command							Date: March 2014					
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development				R-1 Program Element (Number/Name) PE 1160490BB / Operational Enhancements Intelligence								
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	8.479	12.209	14.446	16.225	-	16.225	15.225	16.387	16.727	17.044	Continuing	Continuing
S500D: Operational Enhancements Intelligence	8.479	12.209	14.446	16.225	-	16.225	15.225	16.387	16.727	17.044	Continuing	Continuing
[#] The FY 2015 OCO Request wi	ll be submitt	ed at a late	r date.		I I		I			1		I
A. Mission Description and Buc This program element is part of t Special Access Program Annual B. Program Change Summary (he Military Ir Report to Co	ntelligence ongress.	Program. T	his progran	n is reported	in accorda 4 F	ance with Ti	tle 10, Unite	ed States C	ode, Sectio CO	n 119(a)(1) FY 2015 To	in the
Previous President's Budget				16.386	16.02	<u> </u>	16.2	25		-	16.2	225
Current President's Budget				12.209	14.44	6	16.225			- 16.225		
Total Adjustments			-4.177	-1.57	5		-		-		-	
Congressional General Reductions			-1.137	-								
 Congressional Directed Reductions 			-3.000	-1.57	5							
 Congressional Rescissions 			-0.018	-								
Congressional Adds			-	-								
Congressional Directed Transfers			-	-								
Reprogramming SBIR/STTR Trai	ls nsfer			-0.022	-							
Change Summary Expla Funding: FY2013: Net decrease of million), congressional res	nation	lion is due t	o sequestra	ation reduct	ions (-\$1.13	7 million), c	congression	al reductior	n for excess	of prior yea	ar funds (-\$3	3.000

FY2014: Decrease of \$1.575 million for an underexecution congressional reduction.

FY2015: None.

Schedule: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Sp	pecial Operations Command	Date: March 2014		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160490BB / Operational Enhancements Intelligen	;e		
Technical: None.				