

UNCLASSIFIED

**Department of Defense
Fiscal Year (FY) 2013 President's Budget Submission**

February 2012



United States Special Operations Command

Justification Book

Research, Development, Test & Evaluation, Defense-Wide

UNCLASSIFIED

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

Table of Contents

Comptroller Exhibit R-1..... iii

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

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

USSOCOM Organizations..... xxv

Acronyms.....xxvii

Exhibit R-2's..... 1

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Department of Defense
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

Appropriation	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Research, Development, Test & Eval, DW	447,994	467,427	14,450	481,877
Total Research, Development, Test & Evaluation	447,994	467,427	14,450	481,877

UNCLASSIFIED

Department of Defense
FY 2013 President's Budget
Exhibit R-1 FY 2013 President's Budget
Total Obligational Authority
(Dollars in Thousands)

23 Jan 2012

Appropriation -----	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Research, Development, Test & Eval, DW	427,465	5,000	432,465
Total Research, Development, Test & Evaluation	427,465	5,000	432,465

UNCLASSIFIED

Department of Defense
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

Summary Recap of Budget Activities -----	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Applied Research	36,300	41,591		41,591
Advanced Technology Development (ATD)	50,635	36,003		36,003
Operational Systems Development	361,059	389,833	14,450	404,283
Total Research, Development, Test & Evaluation	447,994	467,427	14,450	481,877
 Summary Recap of FYDP Programs -----				
Intelligence and Communications	20,666	8,847		8,847
Special Operations Forces	423,902	454,921	14,450	469,371
Classified Programs	3,426	3,659		3,659
Total Research, Development, Test & Evaluation	447,994	467,427	14,450	481,877

UNCLASSIFIED

Department of Defense
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

Summary Recap of Budget Activities	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Applied Research	28,739		28,739
Advanced Technology Development (ATD)	51,137		51,137
Operational Systems Development	347,589	5,000	352,589
Total Research, Development, Test & Evaluation	427,465	5,000	432,465
Summary Recap of FYDP Programs			
Intelligence and Communications	25,527	5,000	30,527
Special Operations Forces	401,938		401,938
Classified Programs			
Total Research, Development, Test & Evaluation	427,465	5,000	432,465

UNCLASSIFIED

Defense-Wide
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

Summary Recap of Budget Activities -----	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Applied Research	36,300	41,591		41,591
Advanced Technology Development (ATD)	50,635	36,003		36,003
Operational Systems Development	361,059	389,833	14,450	404,283
Total Research, Development, Test & Evaluation	447,994	467,427	14,450	481,877
Summary Recap of FYDP Programs -----				
Intelligence and Communications	20,666	8,847		8,847
Special Operations Forces	423,902	454,921	14,450	469,371
Classified Programs	3,426	3,659		3,659
Total Research, Development, Test & Evaluation	447,994	467,427	14,450	481,877

UNCLASSIFIED

Defense-Wide
FY 2013 President's Budget
Exhibit R-1 FY 2013 President's Budget
Total Obligational Authority
(Dollars in Thousands)

23 Jan 2012

Summary Recap of Budget Activities -----	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Applied Research	28,739		28,739
Advanced Technology Development (ATD)	51,137		51,137
Operational Systems Development	347,589	5,000	352,589
Total Research, Development, Test & Evaluation	427,465	5,000	432,465
 Summary Recap of FYDP Programs -----			
Intelligence and Communications	25,527	5,000	30,527
Special Operations Forces	401,938		401,938
Classified Programs			
Total Research, Development, Test & Evaluation	427,465	5,000	432,465

UNCLASSIFIED

Defense-Wide
FY 2013 President's Budget
Exhibit R-1 FY 2013 President's Budget
Total Obligational Authority
(Dollars in Thousands)

23 Jan 2012

Appropriation -----	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Special Operations Command			14,450	
Total Research, Development, Test & Evaluation			14,450	

UNCLASSIFIED

Defense-Wide
FY 2013 President's Budget
Exhibit R-1 FY 2013 President's Budget
Total Obligational Authority
(Dollars in Thousands)

23 Jan 2012

Appropriation -----	FY 2013 Base -----	FY 2013 OCO -----	FY 2013 Total -----
Special Operations Command	427,465	5,000	432,465
Total Research, Development, Test & Evaluation	427,465	5,000	432,465

UNCLASSIFIED

Defense-Wide
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Sec
24	1160401BB	Special Operations Technology Development	02	36,300	41,591		41,591	U
		Applied Research		36,300	41,591		41,591	
70	1160402BB	Special Operations Advanced Technology Development	03	41,212	30,242		30,242	U
71	1160422BB	Aviation Engineering Analysis	03	4,628	837		837	U
72	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,795	4,924		4,924	U
		Advanced Technology Development (ATD)		50,635	36,003		36,003	
215	0304210BB	Special Applications for Contingencies	07	15,785	5,045		5,045	U
230	0305208BB	Distributed Common Ground/Surface Systems	07	1,283	1,303		1,303	U
235	0305219BB	MQ-1 Predator A UAV	07	3,598	2,499		2,499	U
237	0305231BB	MQ-8 UAV	07					U
251	1105219BB	MQ-9 UAV	07	96	2,499		2,499	U
252	1105232BB	RQ-11 UAV	07		1,500		1,500	U
253	1105233BB	RQ-7 UAV	07		450	2,450	2,900	U
254	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	9,079				U
255	1160403BB	Special Operations Aviation Systems Advanced Development	07	65,851	74,382		74,382	U
256	1160404BB	Special Operations Tactical Systems Development	07	1,534	799		799	U
257	1160405BB	Special Operations Intelligence Systems Development	07	34,789	27,916		27,916	U
258	1160408BB	SOF Operational Enhancements	07	76,736	65,415	12,000	77,415	U
259	1160421BB	Special Operations CV-22 Development	07	13,976	10,775		10,775	U
260	1160427BB	Mission Training and Preparation Systems (MTPS)	07	3,408	4,617		4,617	U
261	1160429BB	AC/MC-130J	07	7,396	18,571		18,571	U

UNCLASSIFIED

Defense-Wide
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Element Number	Program Item	Act	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Se
24	1160401BB	Special Operations Technology Development	02	28,739		28,739	U
		Applied Research		28,739		28,739	
70	1160402BB	Special Operations Advanced Technology Development	03	45,317		45,317	U
71	1160422BB	Aviation Engineering Analysis	03	861		861	U
72	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,959		4,959	U
		Advanced Technology Development (ATD)		51,137		51,137	
215	0304210BB	Special Applications for Contingencies	07	17,058		17,058	U
230	0305208BB	Distributed Common Ground/Surface Systems	07	7,114		7,114	U
235	0305219BB	MQ-1 Predator A UAV	07	1,355		1,355	U
237	0305231BB	MQ-8 UAV	07		5,000	5,000	U
251	1105219BB	MQ-9 UAV	07	3,002		3,002	U
252	1105232BB	RQ-11 JAV	07				U
253	1105233BB	RQ-7 UAV	07				U
254	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07				U
255	1160403BB	Special Operations Aviation Systems Advanced Development	07	97,267		97,267	U
256	1160404BB	Special Operations Tactical Systems Development	07	821		821	U
257	1160405BB	Special Operations Intelligence Systems Development	07	25,935		25,935	U
258	1160408BB	SOF Operational Enhancements	07	51,700		51,700	U
259	1160421BB	Special Operations CV-22 Development	07	1,822		1,822	U
260	1160427BB	Mission Training and Preparation Systems (MTPS)	07	10,131		10,131	U
261	1160429BB	AC/MC-130J	07	19,647		19,647	U

UNCLASSIFIED

Defense-Wide
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Sec
262	1160474BB	SOF Communications Equipment and Electronics Systems	07	894	1,392		1,392	U
263	1160476BB	SOF Tactical Radio Systems	07	2,277				U
264	1160477BB	SOF Weapons Systems	07	465	2,610		2,610	U
265	1160478BB	SOF Soldier Protection and Survival Systems	07	574	2,971		2,971	U
266	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07		3,000		3,000	U
267	1160480BB	SOF Tactical Vehicles	07	964	3,522		3,522	U
268	1160481BB	SOF Munitions	07		1,500		1,500	U
269	1160482BB	SOF Rotary Wing Aviation	07	54,985	51,123		51,123	U
270	1160483BB	SOF Underwater Systems	07	27,725	68,424		68,424	U
271	1160484BB	SOF Surface Craft	07	18,953	14,475		14,475	U
272	1160488BB	SOF Military Information Support Operations	07	4,109	2,990		2,990	U
273	1160489BB	SOF Global Video Surveillance Activities	07	5,109	8,923		8,923	U
274	1160490BB	SOF Operational Enhancements Intelligence	07	8,047	9,473		9,473	U
9999	9999999999	Classified Programs		3,426	3,659		3,659	U
		Operational Systems Development		361,059	389,833	14,450	404,283	
Total Research, Development, Test & Eval, DW				447,994	467,427	14,450	481,877	

UNCLASSIFIED

Defense-Wide
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Se c
262	1160474BB	SOF Communications Equipment and Electronics Systems	07	2,225		2,225	U
263	1160476BB	SOF Tactical Radio Systems	07	3,036		3,036	U
264	1160477BB	SOF Weapons Systems	07	1,511		1,511	U
265	1160478BB	SOF Soldier Protection and Survival Systems	07	4,263		4,263	U
266	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07	4,448		4,448	U
267	1160480BB	SOF Tactical Vehicles	07	11,325		11,325	U
268	1160481BB	SOF Munitions	07	1,515		1,515	U
269	1160482BB	SOF Rotary Wing Aviation	07	24,430		24,430	U
270	1160483BB	SOF Underwater Systems	07	26,405		26,405	U
271	1160484BB	SOF Surface Craft	07	8,573		8,573	U
272	1160488BB	SOF Military Information Support Operations	07				U
273	1160489BB	SOF Global Video Surveillance Activities	07	7,620		7,620	U
274	1160490BB	SOF Operational Enhancements Intelligence	07	16,386		16,386	U
9999	9999999999	Classified Programs					U
		Operational Systems Development		347,589	5,000	352,589	
Total Research, Development, Test & Eval, DW				427,465	5,000	432,465	

UNCLASSIFIED

Special Operations Command
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Sec
24	1160401BB	Special Operations Technology Development	02	36,300	41,591		41,591	U
		Applied Research		36,300	41,591		41,591	
70	1160402BB	Special Operations Advanced Technology Development	03	41,212	30,242		30,242	U
71	1160422BB	Aviation Engineering Analysis	03	4,628	837		837	U
72	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,795	4,924		4,924	U
		Advanced Technology Development (ATD)		50,635	36,003		36,003	
215	0304210BB	Special Applications for Contingencies	07	15,785	5,045		5,045	U
230	0305208BB	Distributed Common Ground/Surface Systems	07	1,283	1,303		1,303	U
235	0305219BB	MQ-1 Predator A UAV	07	3,598	2,499		2,499	U
237	0305231BB	MQ-8 UAV	07					U
251	1105219BB	MQ-9 UAV	07	96	2,499		2,499	U
252	1105232BB	RQ-11 UAV	07		1,500		1,500	U
253	1105233BB	RQ-7 UAV	07		450	2,450	2,900	U
254	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	9,079				U
255	1160403BB	Special Operations Aviation Systems Advanced Development	07	65,851	74,382		74,382	U
256	1160404BB	Special Operations Tactical Systems Development	07	1,534	799		799	U
257	1160405BB	Special Operations Intelligence Systems Development	07	34,789	27,916		27,916	U
258	1160408BB	SOF Operational Enhancements	07	76,736	65,415	12,000	77,415	U
259	1160421BB	Special Operations CV-22 Development	07	13,976	10,775		10,775	U
260	1160427BB	Mission Training and Preparation Systems (MTPS)	07	3,408	4,617		4,617	U
261	1160429BB	AC/MC-130J	07	7,396	18,571		18,571	U

UNCLASSIFIED

Special Operations Command
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Source
24	1160401BB	Special Operations Technology Development	02	28,739		28,739	U
		Applied Research		28,739		28,739	
70	1160402BB	Special Operations Advanced Technology Development	03	45,317		45,317	U
71	1160422BB	Aviation Engineering Analysis	03	861		861	U
72	1160472BB	SOF Information and Broadcast Systems Advanced Technology	03	4,959		4,959	U
		Advanced Technology Development (ATD)		51,137		51,137	
215	0304210BB	Special Applications for Contingencies	07	17,058		17,058	U
230	0305208BB	Distributed Common Ground/Surface Systems	07	7,114		7,114	U
235	0305219BB	MQ-1 Predator A UAV	07	1,355		1,355	U
237	0305231BB	MQ-8 UAV	07		5,000	5,000	U
251	1105219BB	MQ-9 UAV	07	3,002		3,002	U
252	1105232BB	RQ-11 UAV	07				U
253	1105233BB	RQ-7 UAV	07				U
254	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07				U
255	1160403BB	Special Operations Aviation Systems Advanced Development	07	97,267		97,267	U
256	1160404BB	Special Operations Tactical Systems Development	07	821		821	U
257	1160405BB	Special Operations Intelligence Systems Development	07	25,935		25,935	U
258	1160408BB	SOF Operational Enhancements	07	51,700		51,700	U
259	1160421BB	Special Operations CV-22 Development	07	1,822		1,822	U
260	1160427BB	Mission Training and Preparation Systems (MTPS)	07	10,131		10,131	U
261	1160429BB	AC/MC-130J	07	19,647		19,647	U

UNCLASSIFIED

Special Operations Command
 FY 2013 President's Budget
 Exhibit R-1 FY 2013 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2012

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

Line No	Program Element Number	Item	Act	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Sec
262	1160474BB	SOF Communications Equipment and Electronics Systems	07	894	1,392		1,392	U
263	1160476BB	SOF Tactical Radio Systems	07	2,277				U
264	1160477BB	SOF Weapons Systems	07	465	2,610		2,610	U
265	1160478BB	SOF Soldier Protection and Survival Systems	07	574	2,971		2,971	U
266	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems	07		3,000		3,000	U
267	1160480BB	SOF Tactical Vehicles	07	964	3,522		3,522	U
268	1160481BB	SOF Munitions	07		1,500		1,500	U
269	1160482BB	SOF Rotary Wing Aviation	07	54,985	51,123		51,123	U
270	1160483BB	SOF Underwater Systems	07	27,725	68,424		68,424	U
271	1160484BB	SOF Surface Craft	07	18,953	14,475		14,475	U
272	1160488BB	SOF Military Information Support Operations	07	4,109	2,990		2,990	U
273	1160489BB	SOF Global Video Surveillance Activities	07	5,109	8,923		8,923	U
274	1160490BB	SOF Operational Enhancements Intelligence	07	8,047	9,473		9,473	U
		Operational Systems Development		357,633	386,174	14,450	400,624	
		Total Special Operations Command		444,568	463,768	14,450	478,218	

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

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

Budget Activity 02: Applied Research
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

.....

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
24	02	1160401BB	Special Operations Technology Development.....	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	Page
70	03	1160402BB	Special Operations Advanced Technology Development.....	7
71	03	1160422BB	Aviation Engineering Analysis.....	15
72	03	1160472BB	SOF Information and Broadcast Systems Advanced Technology.....	19

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

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

.....

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
215	07	0304210BB	Special Applications for Contingencies.....	23
230	07	0305208BB	Distributed Common Ground/Surface Systems.....	31
235	07	0305219BB	MQ-1 Predator A UAV.....	41
251	07	1105219BB	MQ-9 Unmanned Aerial Vehicle.....	49
252	07	1105232BB	RQ-11 UAV	57
253	07	1105233BB	RQ-7 UAV.....	61
254	07	1160279BB	Small Business Innovative Research.....	65
255	07	1160403BB	Special Operations Aviation Systems Advanced Development.....	69
256	07	1160404BB	Special Operations Tactical Systems Development.....	81
257	07	1160405BB	Special Operations Intelligence Systems Development.....	85
259	07	1160421BB	Special Operations CV-22 Development.....	97
260	07	1160427BB	Mission Training and Preparation Systems (MTPS).....	105
261	07	1160429BB	AC/MC-130J	113
262	07	1160474BB	SOF Communications Equipment and Electronics Systems.....	121
263	07	1160476BB	SOF Tactical Radio Systems.....	129
264	07	1160477BB	SOF Weapons Systems.....	135

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

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

.....

Line Item	Budget Activity	Program Element Number	Program Element Title	Page
265	07	1160478BB	Soldier Protection and Survival Systems.....	143
266	07	1160479BB	SOF Visual Augmentation, Lasers and Sensor Systems.....	159
267	07	1160480BB	SOF Tactical Vehicles.....	167
268	07	1160481BB	SOF Munitions.....	175
269	07	1160482BB	SOF Rotary Wing Aviation.....	183
270	07	1160483BB	SOF Underwater Systems.....	195
271	07	1160484BB	SOF Surface Craft.....	205
272	07	1160488BB	Military Information Support Operations (MISO) (Formerly SOF PSYOP).....	213

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

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

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
AC/MC-130J	1160429BB	261	07.....	113
Aviation Engineering Analysis	1160422BB	71	03.....	15
Distributed Common Ground/Surface Systems	0305208BB	230	07.....	31
MQ-1 Predator A UAV	0305219BB	235	07.....	41
MQ-9 Unmanned Aerial Vehicle	1105219BB	251	07.....	49
Military Information Support Operations (MISO) (Formerly SOF PSYOP)	1160488BB	272	07.....	213
Mission Training and Preparation Systems (MTPS)	1160427BB	260	07.....	105
RQ-11 UAV	1105232BB	252	07.....	57
RQ-7 UAV	1105233BB	253	07.....	61
SOF Communications Equipment and Electronics Systems	1160474BB	262	07.....	121
SOF Information and Broadcast Systems Advanced Technology	1160472BB	72	03.....	19
SOF Munitions	1160481BB	268	07.....	175
SOF Rotary Wing Aviation	1160482BB	269	07.....	183
SOF Surface Craft	1160484BB	271	07.....	205
SOF Tactical Radio Systems	1160476BB	263	07.....	129
SOF Tactical Vehicles	1160480BB	267	07.....	167
SOF Underwater Systems	1160483BB	270	07.....	195

UNCLASSIFIED

UNCLASSIFIED

United States Special Operations Command • President's Budget Submission FY 2013 • RDT&E Program

Program Element Title	Program Element Number	Line Item	Budget Activity	Page
SOF Visual Augmentation, Lasers and Sensor Systems	1160479BB	266	07.....	159
SOF Weapons Systems	1160477BB	264	07.....	135
Small Business Innovative Research	1160279BB	254	07.....	65
Soldier Protection and Survival Systems	1160478BB	265	07.....	143
Special Applications for Contingencies	0304210BB	215	07.....	23
Special Operations Advanced Technology Development	1160402BB	70	03.....	7
Special Operations Aviation Systems Advanced Development	1160403BB	255	07.....	69
Special Operations CV-22 Development	1160421BB	259	07.....	97
Special Operations Intelligence Systems Development	1160405BB	257	07.....	85
Special Operations Tactical Systems Development	1160404BB	256	07.....	81
Special Operations Technology Development	1160401BB	24	02.....	1

UNCLASSIFIED

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

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

ACRONYMS

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

ACRONYMS

AOR	Area of Responsibility
APB	Acquisition Program Baseline
APC	Acquisition Project Category (USSOCOM)
APM	Assistant Program Manager (formerly System Acquisition Manager (SAM))
APWG	Acquisition Protection Working Group
ARAP	ASDS Reliability Action Panel
ARATS	Aircraft Radar APQ-170 Test Station
ARB	Acquisition Review Board
ARDC	Army Research Development and Engineering Center
ARL	Army Research Lab
ARL	Army Research Laboratory
ARL - UT	Applied Research Lab - University of Texas
ARV	Armored Recovery Variant (MRAP)
AS	Acquisition Strategy
AS&C	Advanced Systems Concept
ASAD	Advanced Studies and Development
ASC	Aeronautical Systems Center
ASD	Assistant Secretary of Defense
ASD (NII)	ASD for Networks and Information Integration
ASD (SO/LIC)	ASD for Special Operations and Low Intensity Conflict
ASDS	Advanced Sea, Air, Land (SEAL) Delivery System
ASE	Aircraft Survivability Equipment
ASFF	Afghanistan Security Forces Fund
ASIC	Application Specific Integrated Circuit
ASICD	Application Specific Integrated Circuit Development
ASM	Anti Structural Munitions
ASMA	Alternative Solution Materials Analysis
ASOIE	Associated Support Items of Equipment
AT&L	(OSD) Acquisition, Technology, and Logistics
ATA	Alternate (or Additional) Test Aircraft (CV-22)
ATACMS	Army Tactical Missile System
ATD	Advanced Technology Demonstration
ATD/TB	AC-130U Gunship Aircrew Training Devices/Testbed
ATIRCM	Advanced Threat Infrared Countermeasures
ATL	Advanced Tactical Laser
ATM	Asynchronous Transfer Mode
ATPIAL	Advanced Tactical Precision Illuminator Aiming Laser
ATPS	Advanced Tactical Parachute System
ATR	Above Threshold Reprogramming
AT-UBA	Advanced Technology Underwater Breathing Apparatus
ATV	All Terrain Vehicle
AUV	Armored Utility Variant (MRAP)
AvFID	Aviation Foreign Internal Defense
AWE	Aircraft, Weapons, Electronics

ACRONYMS

AWES	Area Weapons Effects Simulation
BAA	Broad Area Announcement
BAFO	Best and Final Offer
BAI	Backup Aircraft Inventory
BALCS	Body Armor Load Carriage System
BFM	Business Financial Manager
BFT	Blue Force Tracking
BGAD	Blue Grass Army Depot
BIO	Basic Input Output
BLOS	Beyond Line-of-Site
BLOSeM	Below Line-of-Site Electronic Support Measures
BMATT	Brief Multi-mission Advanced Tactical Terminal
BMS	Battle Management System
BNVS	Binocular Night Vision System
BOD	Board of Directors
BOI	Basis of Issue
BOIA	Basis of Issue Approved
BOIP	Basis of Issue Plan
BOIR	Basis of Issue Requirement
BRP	Bombardier Recreational Products
BTR	Below Threshold Reprogramming
BUD/S	Basic Underwater Demolition School
BULLDOG XL	All-Terrain transport (AKA MUTT) vehicle
C2	Command and Control
C3I	Command, Control, Communications, and Intelligence
C4	Command, Control, Communications, and Computers
C4I	Command, Control, Communications, Computers, and Intelligence
C4IAS	Command, Control, Communications, Computers, and Intelligence Automation System
CAAP	Common Avionics Architecture for Penetration
CAAS	Common Avionics Architecture Systems
CAC	Cost Accounting Codes
CAE	Component Acquisition Executive
CAIG	Cost Analysis Improvement Group
CAIV	Cost as an Independent Variable
CALS	Continuous Acquisition and Life Cycle Support
CAMS	Combat Autonomous Mobility System
CAP	Combat Air Patrol
CAP	Cost Analysis Panel
CAPE	Cost Assessment and Program Evaluation (OSD; replaces PA&E)
CAPS	Counter-Proliferation Analysis and Planning System
CAS	Close Air Support
CASEVAC	Group Level Casualty Evacuation
CAS-TIC	Close Air Support - Troops in Contact
CAT	Acquisition Category

ACRONYMS

CBA	Concealable Body Armor
CBN	Chemical, Biological and Nuclear
CBS	Cost Breakdown Structure
CCB	Configuration Control Board
CCCEKIT	Combat Casualty Care Equipment Kit
CCD	Charged Coupled Device (Forward Looking Infrared Radar Only)
CCD	Coherent Change Detection
CCFLIR	Combatant Craft Forward Looking Infrared (Radar)
CCH	Combatant Craft - Heavy
CCJO	Capstone Concept for Joint Operations
CCL	Combatant Craft - Light
CCM	Combatant Craft - Medium
CCSA	Combat Command Support Agency
CDD	Capabilities Development Document
CDR	Commander
CDR	Critical Design Review
CEP	Circular Error Probable/Probability
CEQ	Council on Environmental Quality
CERP	Capital Equipment Replacement Plan
CERP	Cost Estimating Relationships
CERTEX	Certification Exercise
CESE	Civil Engineering Support Equipment
CET	Capability Evaluation Team
CF&DR	Conditional Fielding and Deployment Release
CFE	Contractor Furnished Equipment
CFR	Code of Federal Regulations
CI	Counterintelligence
CIDS	Capabilities Integration and Development Systems
CIDS	Combat Identification
CINC	Commander in Chief
CIO	Chief Information Officer
CJSOAC	Commander Joint Special Operations Air Component
CL	Centerline (as in ASDS/JMMS)
CLR	Combat Loss Replacement
CM	Configuration Management
CMDS	Countermeasure Dispensing System
CMNS	Combat Mission Needs Statement
CMS	Combat Mission Simulator
CNO	Chief, Naval Operations
CNSWC	Commander, Naval Special Warfare Command
CNT	Combating Narco Terrorism
CNVD	Clip-On Night Vision Device
CO	Contracting Officer
COA	Cooperative Opportunity Analysis

ACRONYMS

COA	Course of Action
CODEL	Congressional Delegation
COE	Corps of Engineers
COIL	Chemical Oxygen Iodine Laser
COIL	Contract of Interest
COIL	Critical Operational Issue
COMSEC	Communications Security
CONOPS	Concept of Operations
COR	Contracting Officer's Representative
CORB	Command Operations' Review Board
CoS	Chief of Staff
COTS	Commercial-Off-The-Shelf
COW	Cost of War
CP	Concealable Pistol
CP	Counter-Proliferation
CPAF	Cost Plus Award Fee
CPARS	Contractor Performance Assessment Reporting System
CPD	Capabilities Production Document
CPI	Critical Program Information
CRB	Capability Review Board
CRIF	Consolidated Rapid Integration Facility
CRM	Comment Review Matrix
CRRC	Combat Rubber Raiding Craft
CS	Combat Swimmer
CS	Confined Space (Light Anti-Armored Weapons)
CSAR	Combat Survivor Evader Locator
CSB	Configuration Steering Board
CSEL	Combat Search and Rescue
CSH	Combat Submersible - Heavy
CSM	Combat Submersible - Medium
CSOLO	Commando Solo
CSR	Critical System Review
CT	Counter Terrorism
CTP	Critical Technical Parameters
CTTL	Clandestine Tagging, Tracking, and Locating
CVR	Cockpit Voice Recorder
CW	Center Wing
CWG	Capability Working Group
DA	Direct Action
DAA	Designated Approval Authority
DAB	Defense Advisory Board
DAC	Defense Acquisition Challenge
DAC	Discretionary Access Control (in message system)
DAGR	Defense Advanced Global Positioning System Receiver

ACRONYMS

DAMA	Demand Assured Multiple Access
DARPA	Defense Advanced Research Projects Agency
DAS	Distributed Aperture System
DASD-CN	Deputy Secretary of Defense - Counter Narcotics
DAWG	Deputy Advisory Working Group
DCDR	Deputy Commander
DCGS	Data Common Ground/Surface System
DCS	Decompression Sickness
DDL	Digital Data Link
DDP	Detachment Deployment Packages (Maritime)
DDR&E	Director, Defense Research & Engineering
DDS	Dry Deck Shelter
DEPORD	Deployment Orders
DERF	Defense Emergency Response Fund
DFARS	Defense Federal Acquisition Regulation Supplement
DFAS	Defense Finance and Accounting Service
DHEA	Dehydroepiandrosterone
DHIP	Defense Human Intelligence Program
DIAM	Data Interface Acquisition Module
DIRCM	Directional Infrared Countermeasures
DITPR	Defense Information Technology Portfolio Repository
DITPR	Directory Information Tree (message system)
DLR	Depot Level Replacements (Replenishment)
DMCS	Deployable Multi-Channel SATCOM
DMS	Defense Message System
DMS	Diminished Manufacturing Sources (ASDS)
DMT/DMR	Distributed Mission Training/Distributed Mission Rehearsal
DNI	Director National Intelligence
DoD	Department of Defense
DoDD	Department of defense Directive
DODI	Department of Defense Instruction
DOE	Department of Energy
DoP	Director of Procurement
DOTMLPF	Doctrine, Organization, Training, Material, Leadership & Education, Personnel & Facilities
DPAP	Director of Procurement and Acquisition Policy
DPPC	Deployable Print Production Center
DPS	Defense Planning Scenarios
DROG	Defense Resources Overview Guidance
DS&TI	Designated Science and Technology Information
DSLID	Dry Submersible Long Duration
DSO	Direct Support Operators
DSRV	Deep Submergence Rescue Vehicle
DSS	Deep Submergence Systems
DT	Development and Test

ACRONYMS

DT&E	Development Test and Evaluation
DTA	Development & Test Aircraft
DTT	Desk Top Trainer
DUSD	Deputy Under Secretary of Defense
EA	Evolutionary Acquisition
EADS	European Aeronautical Defense & Space Company (Airbus Parent)
EADS	Expendable Airdrop Delivery System
EAPS	Engine Air Particle Separator
ECAC	Evasion and Conduct After Capture (part of SERE school)
ECHS	Enhanced Cargo Handling System
ECM	Electronic Countermeasures
ECO	Engineering Change Order
ECOS	Enhanced Combat Optical Sights
ECP	Engineering Change Proposal
EDM	Engineering Development Model
EFIS	Electronic Flight Information System
EFP	Explosively Forced Penetrator
EGLM	Enhanced Grenade Launcher Module
EIR	Embedded Integrated Broadcast System Receiver
EIRS	Enhanced Infrared Suppression
ELT	Emergency Locator Transmitter
EMD	Engineering and Manufacturing Development
EMP	Electromagnetic Pulse (weapon)
ENTR	Embedded National Tactical Receiver
EO/IR	Electro-Optical Infrared
EPRO	Environmental Protection
ERTP	Extended Trans-Regional PSYOP Program
ESA	Enhanced Situational Awareness
ESG	Expeditionary Strike Group (Naval Systems)
ESOH	Environmental Safety and Occupational Health
ESWBS	Expanded Ship Work Breakdown Structure
ETCAS	Enhanced Traffic Alert and Collision Avoidance System
ETI	Evolutionary Technology Insertion
ETV	Extreme Terrain Vehicle
EUAS	Early User Assessment
EUAS	Expeditionary UAS
EUE	Extended User Evaluation
EVM	Earned Value Management
EW	Electronic Warfare
EWASIF	Electronic Warfare Avionics Integrated Systems Facility
EWO	Electronic Warfare Officer
F&DR	Fielding & Deployment Release
F2EA	Find & Fix Exploitation Analysis
F3EA	Find, Fix, Finish, Exploit, Analyze

ACRONYMS

FAA	Federal Aviation Administration
FAA	Functional Area Analysis
FAADC2	Forward Area Air Defense Command and Control
FABS	Fly-Away Broadcast System
FAR	Federal Acquisition Regulation
FATA	Federally Administered Tribal Area
FBCB2	Force XXI Battle Command, Brigade and Below
FCD	Field Computing Devices
FCT	Foreign Comparative Testing
FDEK	Forward Deployed Equipment Kit
FEPSO	Field Experimentation Program for Special operations
FFE	Fire From Enclosure
FID	Foreign Internal Defense
FISA	Foreign Intelligence Surveillance Act
FLIR	Forward Looking Infrared Radar
FMAV	Fleet Maintenance Availabilities
FMBS	Family of Muzzle Brake Suppressors
FMS	Foreign Military Sales
FMV	Full Motion Video
FNA	Functional Needs Analysis
FNM	Foreign & Nonstandard Materiel
FOC	Final (or Full) Operational Capability
FOIA	Freedom of Information Act
FOL	Family of Loud Speakers
FOPEN	Foliage Penetration
FOS	Forward Operating Site
FOS (or FoS)	Family of Systems
FOT&E	Follow-on Test and Evaluation
FPM	Flight Performance Model
FRACAS	Failure Reporting Analysis and Corrective Action System
FSA	Functional Solutions Analysis
FSDS	Family of Sniper Detection Systems
FSOV	Family of SOF Vehicles
FSR	Field Service Representative
FSW	Family of Sniper Weapons
FSWG	Force Structure Working Group
FTE	Full Time Equivalent
FUE	First Unit Equipped
FW	Fixed Wing
FY	Fiscal Year
FYDP	Future Year(s) Defense Plan
GAB	Global Address Book (message system)
GATM	Georgia All Terrain Monsters (Vehicle Manufacturer)
GBS	Global Broadcasting System

ACRONYMS

GCC	Geographical Combatant Commanders
GDF	Guidance for the Development of the Force
GDIP	General Defense Intelligence Program
GDS	Gunfire Detection System
GDSOF	Guidance for the Development of Special Operations Forces
GEF	Global Employment of the Force
GEO	Geological
GFE	Government Furnishment Equipment
GIG	Global Information Grid
GMS-2	Gunship Multispectral System - 2
GMTI	Ground Moving Target Indicator
GMV	Ground Mobility Vehicles
GM-VAS	Ground Mobility Visual Augmentation Systems
GOTS	Global Observer (UAV)
GOTS	Government-Off-the-Shelf
GPK	Gunner Protection Kit
GPPC	Gov't Property in the Possession of Contractors
GPS	Global Positioning System
GR&A	Ground Rules and Assumptions
GRID	Global War on Terrorism (GWOT) Request Information Database
GSK	Ground Signal Intelligence Kit
GSM	Global System Mobile
GSN	Global Sensor Network
GSP	Global SOF Posture
HALE	High Altitude Long Endurance
HAR	Hazard Assessment Report
HASC	House Armed Services Committee
HE	High Explosive
HEI	High Explosive Incendiary
HF	High Fragmentation (munitions)
HF	High Frequency
HFIS	Hostile Fire Indicating System
HFTTL	Hostile Forces Tagging, Tracking, and Locating
HHI	Hand Held
HHI	Hand Held Imager
HIS	Human Systems Integration
HLA	High Level Architecture
HMMWV	High Mobility Multi-purpose Wheeled Vehicle
HMU	Hydrographic Mapping Unit
HOA	Head of Agency
HOA	Horn of Africa
HPFOTD	High Power Fiber Optic Towed Decoys
HPMMR	High Performance Multi-Mission Radio (PRC-117F)
HPS	Human Patient Simulator

ACRONYMS

HRLMD	Hydrographic Reconnaissance Littoral Mapping Device
HSB	High Speed Boat
HSE	Host Support Equipment
HSR	Heavy Sniper Rifle
H-SUV	Hardened-Sport Utility Vehicle
HUD	Heads Up Display
HVI	High Value Individual
HVT	High Value Target
IAS/CMS	Integration Avionics System/Cockpit Management System
IAT	Integration Assembly & Test
IBR	Intelligence Broadcast Receiver
IBS	Integrated Bridge System (Naval System)
IBS	Integrated Broadcast Service
IC	Interim Configuration
ICA	Independent Cost Assessment
ICAD	Integrated Control and Display
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
ICLS	Interim Contractor Logistics Support
ICS	Interim Combat System (Naval Systems)
ICS	Interim Contractor Support
ICT	Integrated Concept Team
IDAP	Integrated Defensive Armed Penetrator
IDAS	Interactive Defensive Avionics Subsystem
IDS	Infrared Detection System
IDWS	Interim Defensive Weapon System (CV-22 All-Quadrant Gun)
IED	Improvised Explosive Devices
IFF	Identify Friend or Foe
IFTS	Integrated Financial Tool for SOAL (integrated Financial Tracking System?)
IGPS (or iGPS)	Iridium Global Positioning System
ILM	Improved Limpet Mine
ILSP	Integrated Logistics Support Plan
ILSS	Integrated Logistics Support Strategy
IM	Insensitive Munitions
IMFP	Integrated Multi-Function Probe
INFOSEC	Information Security
INOD	Improved Night/Day Observation/Fire Control Device
INS	Inertial Navigation System
IOC	Initial Operational Capability
IOT&E	Initial Operational Test & Evaluation
IOV	Indigenous Operations Vehicle
IPC	International Program Office
IPOC	Initial Proof-of-Concept
IPT	Integrated Product Team

ACRONYMS

IPUMA	Intergraded Precision Underwater Mapping
IQAF	Iraqi Air Force
IR	Infrared
IRAM	Improvised Rocket Assisted Munitions (or Mortar)
IRCM	Infrared Countermeasures
IRD	Initial Requirements Document
ISAF	International Security Assistance Force (NATO)
ISFF	Iraqi Security Forces Fund
ISOCA	Improved Special Operations Communications Assemblage
ISP	Information Support Plan
ISP	Integrated Service Desk
ISR	Intelligence Surveillance and Reconnaissance
ISSMS	Improved SOF Manpack System
ISSO	Information Systems Security Office
IT	Information Technology
IT&E	Integrated Test & Evaluation
ITMP	Integrated Technical Management Plan
ITPP	Information Technology Project Plan
ITT	Integrated Test Team
IUID	Item Unique Identification
IWIS	Integrated Warfare Info System
JAMS	Joint Attack Munitions Systems
JBS	Joint Base Station
JCA	Joint Cargo Aircraft
JCD	Joint Capabilities Document
JCET	Joint/Combined Exercise Training
JCIDS	Joint Capabilities Integration and Development System
JCS	Joint Chiefs of Staff
JCTD	Joint Concept Technology Demonstration
JDAM	Joint Direct Attack Munitions
JDISS	Joint Deployable Intelligence Support System
JEM	Joint Enhanced Multi-Purpose Inter/Intra Team Radio
JFA	Joint Functional Area
JHL	Joint Heavy Lift
JICO	Joint Interface Control Officer
JIEDO	Joint Improvised Explosive Device Office
JMC	Joint Munitions Command
JMDSE	Joint Medical Distance Support and Evacuation
JMISC	Joint Military Info Systems Command
JMMS	Joint Multi-Mission Submersible
JMPS	Joint Mission Planning System
JMTG	Joint Military Terminology Group
JOS	Joint Operational Stocks
JPADS	Joint Precision Airdrop System

ACRONYMS

JPATS	Joint Primary Aircraft Trainer System
JPATS	Joint Process Action Team
JPG	Joint Programming Guidance
JPO	Joint Program Office
JPOTF	Joint Psychological Task Force
JREC	Joint Resources Executive Council
JRMP	Joint Resources Management Process
JROC	Joint Requirements Oversight Council
JRWG	Joint Resources Working Group
JSOAC	Joint Special Operations Aviation Components
JSOC	Joint Special Operations Command
JSOTF	Joint Special Operations Task Force
JSTAR	Joint Surveillance and Target Attack Radar System
JTAC	Joint Terminal Attack Controller
JTC	Joint Terminal Control
JTCITS	Joint Tactical C4I Information Transceiver System
JTF	Joint Task Force
JTRS	Joint Tactical Radio System
JTWS	Joint Threat Warning System
JUON	Joint Urgent Operational Need
JWSTAP	Joint Weapons Safety Technical Advisory Panel
KPP	Key Performance Parameter
LAIRCM	Large Aircraft Infrared Control Measures
LAN/WAN	Local Area Network/Wide Area Network
LASAR	Light Assault Attack Reconfigurable Simulator
LASIK	Laser-Assisted IN-Situ Keratomileusis
LASSO	Land and Sea Special Operations (mobility)
LAW	Light Anti-Armored Weapons
LBJ	Low Band Jammer
LCCE	Life Cycle Cost Estimate
LCM	Life Cycle Management
LCM	Low Cost Modifications
LCMP	Life Cycle Management Plan
LCMR	Lightweight Counter Mortar Radar
LCSM	Life Cycle Sustainment Manager
LCSMP	Life Cycle Sustainment Management Plan
LCSP	Life-Cycle Sustainment Plan
LDS	Leaflet Delivery System
LEP	Lightweight Environmental Protection
LEVUAS	Long Endurance Vertical Take Off and Landing UAS
LFT&E	Live Fire Test and Evaluation (Maritime)
LIO	Lock In/Out (on ASDS/JMMS)
LIPT	Logistics Integrated Product Team
LLTM	Long Lead Time Material

ACRONYMS

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

ACRONYMS

MBLT	Machine Based Language Translator
MBMMR	Multi-Band/Multi-Mission Radio
MBSS	Maritime Ballistic Survival System
MCADS	Maritime Craft Air Drop System
MCAR	MC-130 Air Refueling
MCD	Man caused disaster (formerly terrorist)
MCU	Multipoint Conferencing Unit
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MDNA	Mini Day/Night Sight
ME	Military Equipment
MEDTECH	Special Operations Medical Technology Development
MELB	Mission Enhancement Little Bird
MET	Meteorological
MEV	Military Equipment Valuation
MFP	Major Force Program
MFP	Materiel Fielding Plan
MFP-11	Major Force Program-11
MICH	Modular Integrated Communications Helmet
MIDS	Multifunction Information Distribution System
MILDEP	Military Department
MILES	Multiple Integrated Laser Engagement System
MIP	Military Intelligence Program
MIST	Military Information Support Teams
MIST	Miniature ISR Technology
MIU	Munitions Interface Unit
MK 8 (or MK 8 Mod 1)	Mark 8 Sea, Air, Land (SEAL) Delivery Vehicle (SDV)
MK V	Mark V Combatant Craft
MLE	Military Liaison Element
MMA	Material Management Activity (J4)
MMB	Miniature Multiband Beacon
MOA	Memorandum of Agreement
MOE	Measures of Effectiveness
MONO-HUD	Monocular Head Up Display
MOP	Measures of Performance
MOSA	Modular Open System Architecture
MOST	Mobile Over the Snow Transport
MPARE	Mission Planning, Analysis, Rehearsal and Execution
MPC	Media Production Center
MPC	Multi-Purpose Canine (military working dog)
MPK	Mission Planning Kits
MPOC	Mission Predator Operations Center
MQ-1	Predator Unmanned Vehicle
MQ-9	Reaper Unmanned Vehicle

ACRONYMS

MRAP	Mine Resistant Ambush Protected
MRD	Mission Rehearsal Device
MS	Milestone
MSGLE	Multi-Shot Grenade Launcher
MSLO	Mass Swimmer Lock-Out
MSV	Maritime Support Vessel
MTBM	Mean Time Between Maintenance
MTPS	Master Test Plan
MTPS	Mater Test Plan
MTPS	Mission Training and Preparation System
MTRC	Mobile Technology Repair Center
MTs	Mission Tasks
MTT	Mobile Training Teams
MUA	Military Utility Assessment
MUTT	Mobile Utility Terrain Transport (aka Bulldog XL)
MWIR	Mid-wave Infrared
MWS	Missile Warning system
NAVAIR	Naval Aviation Systems Command
NAVSCIATTS	Naval Small Craft Instructor and Technical Training School
NAVSEA	Naval Systems Engineering Command
NAVSPECWARCOM	Naval Special Warfare Command
NBC	Nuclear, Biological, and Chemical
NBOE	Non-Gasoline Burning Outboard Engine
NC-MIO	Non Compliant Maritime Interdiction Operations
NDAA	National Defense Authorization Act
NDI	Non-Developmental Item
NEPA	National Environmental Policy Act
NET	New Equipment Training
NGES	Northrop Grumman Electronics Systems
NGG	Next Generation Gunship
NGLDS	Next Generation Leaflet Delivery system
NGLRS	Next Generation Long Range Strike
NGSB	Northrop Grumman Ship Building
NIP	National Intelligence Program
NISH	National Institute of Severely Handicapped
NM	Nautical Miles
NMF	National Mission Force
NOOSC	Network Operations Systems Center
NRE	Non-Recurring Engineering
NRT	Near Real Time
NSAV	Non-Standard Aviation
NSCV	Non Standard Commercial Vehicle
NSS	National Security Systems
NSSS (aka TENCAP)	National Systems Support to SOF

ACRONYMS

NSW	Naval Special Warfare
NSWC	Naval Special Warfare Command
NTISR	Non-Traditional Intelligence, Surveillance, Reconnaissance
NUWC	Naval Undersea Warfare Center
NVD	Night Vision Devices
NVEO	Night Vision Electro-Optic
O&M	Operations and Maintenance
OA/CW	Obstacle Avoidance/Cable Warning
OACE	Open Architecture Computing Environment
OAS	Obstacle Avoidance Sonar (or System)
OAS	Office of Aerospace Studies (Air Force)
OAS	Organization of American States
OBESA	On-Board Enhanced Situational Awareness
OCO	Operator Compartment (ASDS/JMMS)
OCO	Overseas Contingency Operations
ODNI	Office of the Director of National Intelligence
OEF	Operation Enduring Freedom
OEF-CCA	Operation Enduring Freedom - South America Caribbean/Central America
OEF-H	Operation Enduring Freedom - Horn of Africa
OEF-P	Operation Enduring Freedom - Philippines
OEF-TS	Operation Enduring Freedom - Trans Saharan Africa
OEP	Operations Effectiveness Panel
OGA	Other Government Agencies
OIF	Operation Iraqi Freedom
OIO	Offensive Information Operations
OMB	Office of Management and Budget
OMMS	Organizational Maintenance Manual Sets
ONS	Operational Needs Statement
OPEVAL	Operational Evaluation
OPG	Operational Planning Guidance
OPTEVOR	Operational Test and Evaluation Force
ORD	Operational Requirements Document
OSA	Open Systems Architecture
OSD	Office of the Secretary of Defense
OT	Operational Test (or Testing)
OT&E	Operational Test and Evaluation
OTA	Operational Test Agency
OTB	Over The Beach
OTI	One Time Inspection
OTRWG	Operational Test Readiness Working Group
OWS	Operation Willing Spirit (SOUTHCOM)
P3I	Pre-Planned Product Improvement
PAB	Personal Address Book (message system)
PAC	Process Analysis Control

ACRONYMS

PACCM	Psychological Operations Automated Command and Control Module
PAI	Primary Aircraft Inventory
PAM	Penetration Augmented Munitions
PARD	Passive Acoustic Reflection Device
PC	Patrol Coastal
PC	Personal Computer
PCO	Procurement Contracting Officer
PCOR	Primary Contracting Officers' Representative
PDA	Personal Digital Assistant
PDAE	Principle Deputy to the Acquisition Executive
PDM	Program Decision Memorandum
PDR	Pre-Design Refinement
PDR	Preliminary Design Review
PDR	Program Deviation Report
PDS	Psychological Operations Distribution System
PED	Personal Electronic Devices
PED	Processing, Exploitation, Dissemination
PEO	Program Executive Office (or Officer)
PESHE	Programmatic Environment Safety and Occupational Health Evaluation
PFPS	Portable Flight Planning System
PFS	Principle for Safety
PGCB	Precision Guided Canister Bomb
PGM	Precision Guided Munitions
PGSE	Peculiar Ground Support Equipment
PHST	Packaging, Handling, Storage, and Transportation
PIA	Post Independent Analysis
PIA	Primary Training Aircraft Inventory
PIPT	Program Integrated Product Team
PLCCE	Program Life Cycle Cost Estimate
PLED	Polymer Light Emitting Diode
PLTD	Precision Laser Targeting Device
PM	Program (or Project) Manager
PMAC	Program Management Allocation Criteria
PM-MCD	Project Manager for Mines, Countermeasures and Demolitions
PMSOA	Program Specific Memorandum of Agreement
POBS	Psychological Operations Broadcasting System
POE	Program Office Estimate
POG	Psychological Operations Group
POMD	Program Objective Memorandum
POMD	Psychological Operations Media Display
POPAS	PSYOP Planning and Analysis System
POPS	Psychological Operations Print System
POPS	PSYOP Print System
POR	Program of Record

ACRONYMS

POTUS	President of the United States
PPBE	Planning, Programming, Budget, and Execution
PPHE	Pre-Fragmented Programmable High Explosive
PPI	POM Preparation Instruction
PIED	Pressure Plate Improvised Explosive Device
PPP	Program Protection Plan
PRK	Photo Refractive Keratectomy
PRTV	Production Representative Test Vehicle
PSAS	Persistent Surface Attack System-of-Systems
PSMOA	Program (or Project) Specific Memorandum of Agreement
PSP	Precision Strike Package
PSR	Precision Sniper Rifle
PSR	Program Support Review
PSYOP	Psychological Operations
PTLD	Precision Target Locator Designator
PTT	Part Task Trainer
QOT&E	Qualification Test and Evaluation/Qualification Operational Test and Evaluation
QRF	Quick Reaction Force
RAA	Required Assets Available (or Availability)
RAM	Reliability, Availability, Maintainability
RAMS	Remote Activated Munitions System
RCM	Requirements Correlation Matrix
RD&A	Research, Development, and Acquisition
RDR	Radar Warning Receiver
RDT&E	Research, Development, Test, and Evaluation
REB	Regional Engagement Branch
REITS	Rapid Exploitation of Innovative Technologies
RF	Radio Frequency
RFF	Request for Forces
RFI	Ready for Issue
RFI	Request for Information
RFIED	Radio Frequency Improvised Explosive Device (IED)
RFT	Ready for Training
RGB	Red, Green, Blue
RGR	Ranger Regiment
RIB	Rigid Inflatable Boat
RIS	Radio Integration System
RMD	Resource Management Decision
RMS	Root-Mean Square
RMWS	Remote Miniature Weather System
ROAR	Rover Over the Horizon Augmented Reconnaissance
ROIP	Radio Over Internet Protocol (IP)
ROMO	Range of Military Operations
ROSES	Reduced Optical Signature Emissions System

ACRONYMS

RPUAS	Rucksack Portable Unmanned Aircraft System
RRT	Rapid Response Team (CMNS)
RSTA	Reconnaissance Surveillance Target Acquisition
RUT	Realistic Urban Training
RVM	Requirements Validation Matrix
RW	Rotary Wing
RWR	Radar Warning Receivers
RWS	Remote Weapons Station
RWS	Remote Weapons System
S&T	Science & Technology
SADBU	Small and Disadvantaged Business Utilization
SAFC	Special Applications for Contingencies
SAGIS	SOF Air-Ground Interface Simulator
SAGIS	Study Advisory Group
SAHRV	Semi-Autonomous Hydrographic Reconnaissance Vehicle
SAM	System Acquisition Manager (no longer used - now called Assistant Program Manager (APM))
SAMP	Single Acquisition Management Plan
SAP	Special Access Program
SAPR	Sexual Assault Prevention and Response
SAR	Selected Acquisition Report
SARC	Sexual Assault Response Coordinator
SASC	Senate Armed Services Committee
SAT	Simplified Acquisition Threshold
SATCOM	Satellite Communication
SAVE	Small Assault Vehicle Expeditionary
SAW	Small Arms and Weapons
SBIR	Small Business Innovative Research
SBR	System Baseline Review
SBSA	Small Business Set Aside
SBT	Special Boat Team
SBUD	Simulator Block Update
SCAR	SOF Combat Assault Rifle
SCAR	Strike Control and Reconnaissance (Gunship)
SCG	Security Classification Guide
SCI	Sensitive Compartmented Information
SCPC	Single Channel Per Carrier
SCSO	USSOCOM Center for Special Operations
SDD	System Design and Development
SDD	System Development and Demonstration
SDN-M	SOF Deployable Node-Medium
SDS	Sniper Detection System
SDV	Sea, Air, Land (SEAL) Delivery Vehicle
SDV-N	SEAL Delivery Vehicle - Next Generation
SE	Support Equipment

ACRONYMS

SE	Systems Engineering
SEAD	Suppression of Enemy Air Defenses
SEAL	Sea, Air, Land
SEALION	Sea, Air, Land, Insertion Observation Neutralization
SEP	Systems Engineering Plan
SERE	Survival, Escape, Resistance, and Evasion
SFA	Security Force Assistance
SHARK	SOF High-Speed Agile Reachback Kit
SIC	Special Identifiable (or identifier) Code (message system)
SIE	SOF Information Enterprise
SIE	SOF Information Environment
SIGINT	Signals Intelligence
SIL	Systems Integration Lab
SIPE	Swimming Induced Pulmonary Edema
SIPRNET	Secure Internet Protocol Router Network
SIRCM	Suite of Infrared Countermeasures
SIRFC	Suite of Integrated Radar Frequency Countermeasures
SIT	Squadron Integration Training
SKOS	Sets, Kits and Outfits
SKR	Silent Knight Radar
SLAAMRAM	Surface Launched AMRAAM
SLAM	Selectable Lightweight Attack Munitions
SLDW	SOF logistics Data Warehouse
SLED	SOF Long Endurance Demonstrator
SLEP	Service Life Extension Program
SLNBOE	Submersible Lightweight Non-Gasoline Burning Engine
SMAX	Special Operations Command Multipurpose Antenna, X-Band
SME	Significant Military Equipment
SME	Special Mission Equipment
SME	Subject Matter Expert
SMG	SOF Machine Gun
SMRS	Special Mission Radio System
SNSL	Standard Navy Stocking List
SO	Special Operations
SOAE	Special Operations Acquisition Executive
SOAL	Special Operations Acquisition and Logistics Center
SOALIS	SOAL Information System
SOAL-L/J4	SOAL Directorate of Logistics
SOAL-M	SOAL Director of Management
SOAL-T	SOAL Directorate of Advanced Technology
SOC	Special Operations Craft (Naval Systems)
SOC	Special Operations Command
SOC-R	Special Operations Craft-Riverine
SOCRATES	Special Operations Command, Research, Analysis and Threat Evaluation System

ACRONYMS

SOCREB	Special Operations Command Requirements Evaluation Board
SOCS	Special Operation Command Surgeon
SOEP	Special Operations Eye Protection
SOF	Special Operations Forces
SOFARS	Special Operations Federal acquisition regulation Supplement
SOFK	Solid Oxide Fuel Cell
SOFDK	SOF Demolition Kit
SOFIV	SOF Intelligence Vehicle
SOFLAM	SOF Laser Acquisition Marker
SOFLRD	SOF Laser Range Finder and Designator
SOFM	Special Operations Forces Comptroller (or Special Operations Center for Financial Management)
SOFPARS	SOF Planning and Rehearsal System
SOFSA	SOF Forces Support Activity
SOFTACS	SOF Tactical Assured Connectivity System
SOFTAPS	SOF Tactical Advanced Parachute System
SOFTAV	Special Operations Forces Total Asset Visibility
SOIG	Special Operations Inspector General
SOIS	Special Operations Intelligence System
SOJA	Special Operations Judge Advocate
SOJICC	Special Operations Joint Interagency Collaboration Center
SOKF	Special Operations Knowledge and Futures Center
SOLA	Special Operations Legislative Affairs
SOLL	Special Operations Low Level
SOMPE	Special Operations Mission Planning Environment
SOMROV	Special Operations Miniature Robotic Vehicle
SOMS-B	Special Operations Media Systems B
SONC	Special Operations Center for Networks and Communications
SOO	Statement of Objectives
SOP	Standard Operating Procedure
SOPGM	Standoff Precision Guided Munitions
SOPMOD	SOF Peculiar Modification
SOPMODM-4	SOF Peculiar Modification-M4 Carbine
SORR	Special Operations Force Structure, Requirements, Resources, and Strategic Assessments Center
SORR-J8-O	USSOCOM Operational Test and Evaluation Directorate
SORR-J8-R	USSOCOM Requirements Directorate
SOSE	Special Operations Safety Office
SOST	SCAR Ammo (munitions)
SOST	Special Operations Special Technology
SOTD	Special Operations Technology Development
SOTVS	Special Operations Tactical Video System
SOVAS HHI	Special Operations Visual Augmentation System Hand Held Imagers
SOW	Special Operations Wing
SOW	Statement of Work
SPC	Systems Production Certification

ACRONYMS

SPEAR	Senior Procurement Executive
SPEAR	SOF Personal Equipment Advanced Requirements
SPG	Strategic Planning Guidance
SPIKE	Shoulder Fired Smart Round
SPP	Strategic Planning Process
SPR	Special Purpose Rifle
SPTC	SOF Pre-Deployment Training Cycle
SQT	SEAL Qualification Training
SR	Surveillance and Reconnaissance
SRATS	Specialized Reconnaissance Assault Transport System
SRC	Special Reconnaissance Capabilities
SRC	Systems Readiness Center
SRCP	Supplemental Resource Collection Process
SRTC	Short Infrared Sensor
SSAVIE	SOF Sustainment Asset Visibility and Information Exchange
SSC	Surface Support Craft
SSE	Sensitive Site Exploitation
SSGN	Nuclear Guided Missile Submarine
SSL	System Safety Lead
SSO	Site Security Office
SSR	Sniper Support Rifle
SSRA	System Safety Risk Assessment
SSSAR	Solid State Synthetic Aperture Radar
SSSP	Steady State Security Posture
SSTG	SOF SIGINT Training Group
START	Special Threat Awareness receiver/Transmitter
STC	SOF Tactical Communication
STD	Swimmer Transport Device
STET	Strategic Technology Evaluation Team
STRB	Strategic Technology Review Board
SUAS	Small Unmanned Aerial System
SVEST	Suicide Vest
SVMMC	Small Versatile Maritime Mobility Craft
SW	Short-Wave
SWALIS	Special Warfare Automated Logistic Information System
SWAP	Size, Weight, and Power
SWCC	Special Warfare Combatant-craft Crewman
SWCS	Shallow Water Combat Submersible
SWIR	Short Wave Infrared Radar
SWIR	Short-Wave Infrared Sensor
SWORDS	Special Weapons Observation and Remote Direct-Action System
SYDET	Sympathetic Detonator
T&E	Test and Evaluation
TAC-A	Tactical Air Coordinator - Airborne

ACRONYMS

TACLAN	Tactical Local Area Network
TACTICOMP	Tactical Computer
TACTI-NET	Tactical Network
TAPO	Technology Application Program Office
TAT	To-Accompany Troops
TAV	Technical Availabilities
TAV	Total Asset Visibility
TAV	Total Asset Visibility
TAWS	Terrain Awareness and Warning System
TBI	Traumatic Brain Injury
TC	Transport Compartment (ASDS/JMMS)
TCCC	Tactical Combat Casualty Care
TCT	Time Critical Target
TCV	Transit Case Variant
TDA	Technical Direction Agent
TDE	Technology Development Exploitation
TDFD	Time Delay Firing Device
TDMA	Time Division Multiple Access
TDO	Technology Development Objective
TDO	Technology Development Objectives
TDS	Technology Development Strategy
TDS	Technology Development Strategy
TEI	Technology Exploitation Initiative
TEMP	Test and Evaluation Master Plan
TENCAP	Tactical Exploitation of National Capabilities (also NSSS)
TERESA	Tactical Edge and Response for Enhanced Situation Awareness
TES/TEZ	Target Engagement Zones (kill boxes)
TES/TEZ	Test and Evaluation Strategy
TF/TA	Terrain Following/Terrain Avoidance (Radar)
THDD	Tactical Handheld Digital Devices
TIC	Technology Infusion Cell
TIC	Troops in Contact
TILO	Technical Industrial Liaison Officer
TIPT	Test Integrated Product Team
TMR	Total Munitions Requirement
TO	Technical Order
TOR	Terms of Reference
TOS	Time on Station
TOT	Time on Target
TPE	Theater Provided Equipment
TPED	Tactical Processing, Exploitation, and Dissemination
TR	Technical Representative
TRL	Technology Readiness Level
TRR	Test Readiness Review

ACRONYMS

TRS	Tactical Radio System
TSOC	Theater Special Operations Command
TSOST	Theater Special Operations Surgical Teams
TSP	Time Sensitive Planning
TST	Time Sensitive Target
TST	Trans Sahara or Trans Saharan (as in JSOTF-TS)
TT&L	Tagging, Tracking & Locating
TTHM	Titanium Tilting Helmet Mount
TTP(s)	Tactics, Techniques, and Procedures (sometimes Targeting is included)
TUTC	Terrorism, Unconventional Threats, and Capabilities (Subcommittee)
U.S.C.	United States Code
UAGS	Unattended Ground Sensor
UARRSI	Universal Aerial Refueling Receptacle Slipway
UAS	Unmanned Aerial System
UAV	Unmanned Aerial Vehicle
UBA	Underwater Breathing Apparatus
UCA	Undefinitized Contract Action
UCMM	Undersea Clandestine Maritime Mobility
UCP	Unified Command Plan
UCP	Unsolicited Congressional Plus-Up
UCR	Unit Cost Report
UDA	Urgent Deployment Acquisition
UGV	Unmanned Ground Vehicle
UHF	Ultra High Frequency
UHMS	Undersea and Hyperbaric Medicine Society
UID	Unique Identification Device
UJTL	Universal Joint Task List
UK	United Kingdom
ULT	Unit Level Training
UMI	User Master Interface
US	United States
USASOC	U.S. Army Special Operations Command
USD (AT&L)	Under Secretary of Defense for Acquisition, Technology, and Logistics
USG	U.S. Government
USSOCOM	United States Special Operations Command
USTEDA	USSOCOM Table of Equipment and Distribution Allowances
UTC	Unit Type Code
UV	Unmanned Vehicles
UVT	Unmanned Vehicle Targeting
UW	Unconventional Warfare
V/STOL	Vertical/Short Take-Off and Landing
VAS	Victim Advocate
VAS	Visual Augmentation System
VB	Variable Ballast

ACRONYMS

VBIED	Vehicle-Borne Improvised Explosive Device
VBL	Visible Bright Lights
VBSS	Visit, Board, Search, and Seizure (Maritime)
VBT	Variable Ballast Tank
VCUAS	Vehicle-Craft Launched Unmanned Aerial System
VEO	Violent Extremist Organization
VESTA	Vibro-Electronic Signature Target Analysis
VHF	Very High Frequency
VSAT	Very Small Aperture Terminal
VSD	Variable Speed Drogue
VSM	Very Small Munitions
VSWMCM	Very Shallow Water Mine Countermeasures
VTC	Video Teleconferencing
WBS	Work Breakdown Structure
WIFI	Wireless Fidelity
WIN-T	Warfighter Information Network - Tactical
WIRED	Wind Tunnel Integrated Real Time In the Cockpit/Real Time Out of the Cockpit Experiments and Demonstrations
WMD	Weapons of Mass Destruction
WOT	War on Terrorism
WRM	War Reserve Materials
WRT	With Regards To
WSADS	Wind Supported Air Delivery System
WTC	World Trade Center
XML	Extensible Mark-up Language
ZBT	Zero Base Transfer

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>			PE 1160401BB: <i>Special Operations Technology Development</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	36.300	41.591	28.739	-	28.739	29.246	29.774	28.936	29.427	Continuing	Continuing
S100: <i>SO Technology Development</i>	36.300	41.591	28.739	-	28.739	29.246	29.774	28.936	29.427	Continuing	Continuing

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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	26.545	26.591	28.411	-	28.411
Current President's Budget	36.300	41.591	28.739	-	28.739
Total Adjustments	9.755	15.000	0.328	-	0.328
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	15.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.467	-			
• SBIR/STTR Transfer	-0.912	-			
• Other Adjustment	10.200	-	0.328	-	0.328

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S100: *SO Technology Development*

Congressional Add: *Unfunded Requirement*

	FY 2011	FY 2012
Congressional Add Subtotals for Project: S100	15.121	15.000
Congressional Add Totals for all Projects	15.121	15.000

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>
--	--

Change Summary Explanation

Funding:

FY 2011 Net increase of \$9.755 million is due to an increase of a Congressional add (\$15.200 million), a Congressional reduction for unexecutable growth (- \$5.000 million), a economic assumption reduction (- \$0.187 million), a reprogramming to support SORBIS (\$0.365 million), a reprogramming to support Rotary Wing Aviation (\$0.289 million) and a transfer of funds to Small Business Innovation Research (-\$0.912 million).

FY 2012 Program increase due to a congressional add titled "Program Increase - Unfunded Requirement" (\$15.000 million).

FY 2013 Increase of \$0.328 million is due an economic assumption increase.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>				PE 1160401BB: <i>Special Operations Technology Development</i>				S100: <i>SO Technology Development</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S100: <i>SO Technology Development</i>	36.300	41.591	28.739	-	28.739	29.246	29.774	28.936	29.427	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

- Rapid Exploitation of Innovative Technologies (REITS). Beginning in FY 2012, funds were moved to PE 1160402BB, Special Operations Advanced Technology Development, to more accurately reflect the correct budget activity for projects in this subproject. REITS provides USSOCOM the ability to identify, assess and exploit emerging innovative technologies for SOF capability deficiencies and expedite technology transitions from the laboratory to operational use. These technologies provide new transformational capabilities and immediate operational impacts, while providing a compass for the direction of future SOF procurement.
- REITS C4, ISR, and Sensors Capability Area. Develop technologies that provide SOF with improved situational awareness and communications and computer resources in all environments. Develop and discover technologies offering significant improvements in areas such as: enhanced sensors; enhanced command and control architectures and solutions; information consolidation, dissemination, and coordination; improved man-machine interface; covert secure communications; and effective antenna solutions.
- REITS Mobility, Power and Energy Capability Area. Exploit and develop technologies to improve the performance and survivability, and reduce the detectability of SOF mobility assets. Develop and discover technologies offering significant improvements in ground, sea, and air mobility areas such as: increased range/operational environment; improved durability; power/propulsion systems including new fuel sources, and reduced signature.
- REITS Warrior Systems and Bio-Medical Capability Area. Exploit and develop technologies to increase the SOF warrior's survivability and performance. Develop and discover technologies offering significant improvements in areas such as: improved target identification and engagement, human identification, electro-optical vision systems, sensor fusion, human endurance, SOF medical equipment, operator safety, and improved weapons and accessories.
- Special Operations Technology Development Sub-Project: This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments, and leverages other organizations' technology projects that may not otherwise be affordable within MFP-11.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>	PROJECT S100: <i>SO Technology Development</i>
--	--	--

- Tagging, Tracking, and Locating (TTL) Sub-Project: TTL technologies are a key element in the ability of SOF to find, fix, and finish targets in overseas contingency operations (OCO). This sub-project invests in critical science and technology efforts to improve operational capabilities for TTL high value individuals and objects in support of the OCO.
- Classified Sub-Project (provided under separate cover).
- The following technology activity was added by congress in FY 2011:
- Congressional add: Unfunded Requirement - Increased development of multi-spectral optics which will address night vision capability gaps; concentrated on power requirements for SOF mobility platforms; and initiated efforts to address biometric and non-lethal engagement needs. Classified unfunded requirement details are provided under separate cover.

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

	FY 2011	FY 2012	FY 2013
Title: REITS C4, ISR, and Sensors Capability Area FY 2011 Accomplishments: Developed advanced sensors, multi-spectral optics, high bandwidth technologies and multi-level security systems.	5.008	-	-
Title: REITS Mobility, Power and Energy Capability Area FY 2011 Accomplishments: Pursued low observable and counter low observable technologies to develop advanced lightweight armor and materials. Investigated multi-domain mobility platforms.	2.500	-	-
Title: REITS SOF Warrior Systems and Bio-Medical Capability Area FY 2011 Accomplishments: Developed far-forward Tactical Combat Casualty Care kits. Pursued rapid assays/diagnostics, reduced operator load, and provided advanced protection.	2.100	-	-
Title: Special Operations Technology Development FY 2012 Plans: Pursue reduced signature technologies; develop advanced lightweight armor and materials; and begin development of multi-domain mobility platforms, long duration small form factor power supplies, alternative fuel power systems and "green" energy devices. Continue to advance technologies for combat medical equipment and tactics. Continue pursuit of methods to reduce operator load and provide advanced protection. Develop technologies for improved Man-Machine Interface and functionality of Target Engagement Systems and investigate technologies that can be applied to increase human performance and endurance; pursue enhancements to technologies that can aid in detection of enemy intentions and movement. Continue further development	-	11.944	12.226

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>		PROJECT S100: <i>SO Technology Development</i>			
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013
of Multi-Spectral Optics, Digital Night Vision, Digital Fusion, Short-Wave Infrared Radar Characterization, Power Systems and Advanced Optics transition mature technology into programs of record. FY 2013 Plans: Continue ongoing technology development sub-projects in areas such as, but not limited to: reduced signature technologies; advanced lightweight armor and materials; multi-domain mobility platforms; long duration small form factor power supplies; alternative fuel power systems and eco-friendly energy devices. Advance technologies for combat medical equipment and tactics; sensor and processing improvements; improve interfaces and displays; and secure communications. Continue pursuit of methods to reduce operator load and provide advanced protection. Develop technologies for improved and widened window of target engagement (escalation of force); pursue enhancements to technologies that can aid in detection of enemy intentions and movement; and continue development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfer successful projects into programs of record.						
Title: Tagging, Tracking, and Locating Technologies (TTL) FY 2011 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continued projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiated and continued projects linked to the USSOCOM/DoD TTL Roadmap, which is updated via the Joint Chiefs of Staff (JCS)/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA). FY 2012 Plans: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continue projects to exploit nanotechnology, biotechnology and chemistry for application to TTL systems. Initiate projects linked to the USSOCOM/DoD TTL Roadmap. Support the JCS TTL Quick Look Capability Assessment. FY 2013 Plans: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continues projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiates projects linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA).				9.630	12.567	14.371
Title: Classified FY 2011 Accomplishments: Details provided under separate cover. FY 2012 Plans:				1.941	2.080	2.142

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>	PROJECT S100: <i>SO Technology Development</i>
--	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Details provided under separate cover.			
FY 2013 Plans: Details provided under separate cover.			
Accomplishments/Planned Programs Subtotals	21.179	26.591	28.739

	FY 2011	FY 2012
Congressional Add: Unfunded Requirement	15.121	15.000
FY 2011 Accomplishments: Increased development of multi-spectral optics which will address night vision capability gaps; concentrated on power requirements for SOF mobility platforms; and initiated efforts to address biometric and non-lethal engagement needs. Classified unfunded requirement details are provided under separate cover.		
FY 2012 Plans: Expand and enhance current Unclassified Test Bed (UTB) capabilities such as evaluating, developing, prototyping and fabricating quick reaction prototypes. Included in this effort, is a classified area that will provide SOF the ability to quickly transition candidate technologies with multiple levels of classification. Continue integration of Multi-Spectral optics which will address night vision capability gaps and signature management improvements; develop power solutions for SOF mobility platforms; and continued efforts to address non-lethal engagement needs.		
Congressional Adds Subtotals	15.121	15.000

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>			PE 1160402BB: <i>Special Operations Advanced Technology Development</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	41.212	30.242	45.317	-	45.317	46.356	41.645	42.409	43.131	Continuing	Continuing
S200: <i>SO Advanced Technology Development</i>	41.212	30.242	45.317	-	45.317	46.356	41.645	42.409	43.131	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element conducts rapid prototyping and Advanced Technology Demonstrations (ATDs). ATDs provide a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The program element 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.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	30.806	35.242	39.684	-	39.684
Current President's Budget	41.212	30.242	45.317	-	45.317
Total Adjustments	10.406	-5.000	5.633	-	5.633
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.587	-			
• SBIR/STTR Transfer	-0.964	-			
• Other Adjustments	7.783	-5.000	5.633	-	5.633

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S200: *SO Advanced Technology Development*

Congressional Add: *SOF Advance Concept Technology Demonstration (ACTD) Programs*

Congressional Add Subtotals for Project: S200

Congressional Add Totals for all Projects

	FY 2011	FY 2012
	7.958	-
	7.958	-
	7.958	-

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>
---	---

Change Summary Explanation

Funding:

FY 2011 Net increase of \$10.406 million is due to an increase for a Congressional add for Advance Capabilities Technology Demonstration (ACTD) (\$8.000 million), below threshold reprogrammings to support YMQ-18A Unmanned Aerial Vehicle (\$2.577 million), and a technical and user assessment of SOCOM APPS Store Software (\$0.990 million), an economic assumption reduction (-\$0.197 million), and a transfer of funds to Small Business Innovative Research (-\$0.964 million).

FY 2012 Decrease of \$5.000 million for an excess to need congressional reduction.

FY 2013 Net increase of \$5.633 million is due to a new start program, Special Communications Field Segment-Enterprise, which will manage and provide clandestine exchanges of information between SOF elements (\$5.100 million), a reprogramming to higher command priorities (-\$0.011 million) and an economic assumption increase (\$0.544 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 1160402BB: <i>Special Operations Advanced Technology Development</i>				S200: <i>SO Advanced Technology Development</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S200: <i>SO Advanced Technology Development</i>	41.212	30.242	45.317	-	45.317	46.356	41.645	42.409	43.131	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

- Rapid Exploitation of Innovative Technologies (REITS). This sub-project supports both top-down and bottom-up approaches for USSOCOM Components, Theater Special Operations Commands and Special Operations Task Forces to articulate innovative technology recommendations. Concepts, ideas, and needs will be submitted to HQ USSOCOM for review and/or approval as appropriate. The tenets promote speed, evolution, collaboration, and engagement between the SOF user and the technical problem solver. Individual projects or ideas can be submitted from every echelon of command. Initial evaluation clears new ideas for distribution to industry, academia, laboratories or SOF in-country mobile technology repair complexes that have the capability to augment or build solutions in-place. The USSOCOM directive, "Rapid Technology Support to Special Operations" outlines the processes to identify, assess and exploit emerging innovative technologies for SOF in the following Capability Areas: 1) Command, Control, Communications, and Computers (C4), Intelligence, Surveillance and Reconnaissance (ISR), and Sensors; 2) Mobility, Power, and Energy; 3) SOF Warrior Systems and 4) Weapons and Munitions. Technical activities in these areas will provide new operational capabilities and will mature technologies to better shape future SOF procurements.
- REITS C4, ISR, and Sensors Capability Area. Exploit emerging technologies to conduct ATDs that provide SOF with robust C4 and intelligence capabilities such as, but not limited to, ensuring uninterrupted information exchange, influencing situations to support mission accomplishments, reducing an adversary's ability to use information, increasing sensory performance, improving antenna technologies, and achieving near real-time data fusion for sensor systems.
- REITS Mobility, Power, and Energy Capability Area. Exploit emerging technologies to conduct ATDs such as, but not limited to, providing SOF with durable, survivable mobility capabilities in high threat areas; enhanced situational awareness; reconnaissance and direct action in high threat areas using unmanned systems, improved power system technologies for signature reduction, longer endurance, or smaller size; and advanced energy storage for vehicles, sensors, and operational needs.
- REITS SOF Warrior Systems Capability Area. Exploit emerging technologies to conduct ATDs that provide SOF with increased survivability and performance to enhance individual operator capabilities including, but not limited to, ballistic protection, personal equipment, and night vision and optics systems.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>	PROJECT S200: <i>SO Advanced Technology Development</i>
---	---	---

- Weapons and Munitions Capability Area. Exploit technologies such as tunable weapons, reduce signature capability, and reduce size and weight.
- Special Operations Special Technology Development Sub-Project. This sub-project integrates emerging technologies and presents them in technology demonstrations, in conjunction with joint experiments and other assessment events.
- Joint Task Force SWORD Sub-Project. Explore use of experimental technologies to provide emergent technologies to quick response task force deployments.
- Tagging, Tracking, and Locating (TTL) Technologies Sub-Project. Exploit emerging technologies as identified in the TTL users' Capabilities Based Assessments. Exploit emerging technologies to locate and track targets or items of interest. Pursue advanced development and prototyping of TTL capabilities that have been proven to be feasible and operationally useful.
- National to Theater Transition Sub-Project. Conduct additional testing required to transition items from national forces to theater forces.
- Foliage Penetration Reconnaissance, Surveillance, Targeting and Engagement Radar (YMQ-18A Unmanned Aerial Vehicle). Conducts planning, payload integration, air vehicle improvements, and training in support of multiple operational demonstrations to evaluate the military utility of the YMQ18A unmanned aerial vehicle.
- 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).

The following technology activity was added by Congress for FY 2011:

- SOF Advance Concept Technology Demonstration (ACTD). Expand and enhance current Unclassified Test Bed (UTB) capabilities such as evaluating, developing, prototyping and fabricating quick reaction prototypes. A classified area is being configured and certified, this area will provide SOF the ability to quickly transition candidate technologies from the unclassified Test and Evaluation (T&E) environment to a classified T&E environment.

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

	FY 2011	FY 2012	FY 2013
Title: Rapid Exploitation of Innovative Technology (REITS) for SOF Sub-Project	-	5.310	5.598
FY 2012 Plans:			
Starting in FY 2012, REITS will be executed only in PE 1160402BB. Continue additional demonstrations and evaluations of C4I technologies; warrior survivability improvements; and mobility, power and energy and mobile technology repair center projects. Further develop and insert into existing programs, advanced processing techniques and persistent surveillance. Continue advanced development of signature reduction technologies. Insert lightweight armor and materials into existing acquisition efforts.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>	PROJECT S200: <i>SO Advanced Technology Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Continue to exploit technologies that reduce the load of the operator. Insert into existing programs advanced protection and visualization, and training systems. FY 2013 Plans: Continues to identify and develop technologies which can rapidly transition to support the warfighter with transition paths into programs of record or direct fielding. Capabilities such as, but not limited to: SOF mobility platform improvements, mobile communications applications, improved target engagement, improved materials, improved biometrics and forensics tools, non-traditional power and energy solutions, and improved electronic warfare solutions will be evaluated for development, prototyping, and limited field assessment.				
Title: REITS C4, ISR, and Sensors Capability Area FY 2011 Accomplishments: Developed advance processing techniques, persistent surveillance, completed effort that provides capability to detect, identify, locate and defeat threat signals of interest. Executed multiple Joint Capabilities Technology Demonstrations (JCTDs) to include Rapid Site Exploitation and Operations 3 Dimension (OP3D).		5.309	-	-
Title: REITS Mobility, Power and Energy Capability Area FY 2011 Accomplishments: Investigated multi-domain mobility platforms. Completed prototype integration and assessment of advanced suspension for SOF vehicles. Initiated development of long duration, self sustaining power sources. Executed multiple JCTDs to include the Maritime Predator, Seatracker and Joint Unmanned Arial System (UAS) Precision Targeting JCTD.		5.010	-	-
Title: REITS SOF Warrior Systems Capability Area FY 2011 Accomplishments: Pursued technologies to reduce the load of the operator and improve target engagement. Completed integration and assessment of threat detection and location system. Assessed advanced lightweight armor and improved materials.		4.422	-	-
Title: REITS Weapons and Munitions Capability Area FY 2011 Accomplishments: Assessed ongoing development efforts across this capability area, to include suppression systems, material coatings, and other munition developments.		0.250	-	-
Title: Special Operations Special Technology Sub-Project FY 2012 Plans:		-	6.835	12.566

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>		PROJECT S200: <i>SO Advanced Technology Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Developed and inserted technology into existing programs. Projects technologies include, but are not limited to, reduced signature profiles; improved weapons, lightweight armor and materials; alternative power systems; "green" sustainable energy devices; long duration, reduced size, high output power supplies; and technologies that reduce the load of the operator. FY 2013 Plans: Continues to develop and insert technology into existing programs. Project technologies include, but are not limited to, reduced signature profiles; improved weapons; lightweight armor and materials; alternative power systems; eco-friendly sustainable energy devices; long duration, reduced size, high output power supplies; and technologies that reduce the load of the operator. Initiates development of technologies supporting undersea mobility; develop ground mobility solutions for improved endurance and survivability. Evaluates and develops sensors across the electromagnetic spectrum to meet operational requirements. Based upon agreed technology maturity metrics, transfer successful projects into programs of record.				
Title: Joint Task Force SWORD Sub-Project FY 2012 Plans: Continue to explore the use of experimental technology to provide emergent technology to quick response task force deployments.		-	0.199	-
Title: Tagging, Tracking, and Locating Technologies (TTL) Sub-Project FY 2011 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Exploited and integrated recently-proven and emerging technologies for TTL and TTL-enabling systems. Continued projects toward maturity that are linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA). FY 2012 Plans: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Exploit and integrate recently-proven and emerging technologies for TTL and TTL-enabling systems. Continue projects toward maturity that are linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA). FY 2013 Plans: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Exploits and integrates recently-proven and emerging technologies for TTL and TTL-enabling systems. Continues projects toward maturity that are linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA).		11.920	13.919	18.010
Title: National to Theater Transition		1.864	1.966	1.993

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>	PROJECT S200: <i>SO Advanced Technology Development</i>
---	---	---

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
<p><i>FY 2011 Accomplishments:</i> Conducted testing and evaluation required on various equipment items being transitioned to the SOF Theater Forces.</p> <p><i>FY 2012 Plans:</i> Conduct additional testing and evaluation required on various equipment items being transitioned to the SOF Theater Forces.</p> <p><i>FY 2013 Plans:</i> Conductes additional testing and evaluation required on various equipment items being transitioned to the SOF Theater Forces.</p>			
<p><i>Title:</i> Foliage Penetration Reconnaissance, Surveillance, Targeting and Engagement Radar (YMQ-18A Unmanned Aerial Vehicle)</p> <p><i>FY 2011 Accomplishments:</i> Conducted planning, payload integration, air vehicle improvements, and training in support of multiple operational demonstrations to evaluate the military utility of the YMQ-18A unmanned aerial vehicle.</p>	2.577	-	-
<p><i>Title:</i> Classified Sub-Project</p> <p><i>FY 2011 Accomplishments:</i> Details provided under separate cover.</p> <p><i>FY 2012 Plans:</i> Details provided under separate cover.</p> <p><i>FY 2013 Plans:</i> Details provided under separate cover.</p>	1.902	2.013	2.050
<p><i>Title:</i> Special Communications Field Segment - Enterprise (SPCOM)</p> <p><i>FY 2013 Plans:</i> FY 2013 new start. Initial focus will be on the development of transport and field segment devices for a special communications enterprise, as well as the development of means and methods (tracraft) to provide near term impact to operators.</p>	-	-	5.100
Accomplishments/Planned Programs Subtotals	33.254	30.242	45.317

	FY 2011	FY 2012
<p><i>Congressional Add:</i> SOF Advance Concept Technology Demonstration (ACTD) Programs</p> <p><i>FY 2011 Accomplishments:</i> Expanded and enhanced current Unclassified Test Bed (UTB) capabilities such as evaluating, developing, prototyping and fabricating quick reaction prototypes. Included in this effort is a</p>	7.958	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160402BB: <i>Special Operations Advanced Technology Development</i>	PROJECT S200: <i>SO Advanced Technology Development</i>
---	---	---

	FY 2011	FY 2012
classified area that will provide SOF the ability to quickly transition candidate technologies from an unclassified T&E environment to a classified T&E environment.		
Congressional Adds Subtotals	7.958	-

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>			PE 1160422BB: <i>Aviation Engineering Analysis</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing
SF101: <i>Aviation Engineering Analysis</i>	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing

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; and future SOF aircraft requirements.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.234	0.837	0.851	-	0.851
Current President's Budget	4.628	0.837	0.861	-	0.861
Total Adjustments	0.394	-	0.010	-	0.010
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.521	-			
• SBIR/STTR Transfer	-0.105	-			
• Other Adjustments	-0.022	-	0.010	-	0.010

Change Summary Explanation

Funding:

FY 2011: Net increase of \$0.394 million is due to economic assumption reduction (-\$0.022 million), transfer to Small Business Innovative Research (-\$0.105 million) and a reprogramming of funding for engineering studies and analysis of (\$0.521 million).

FY 2012: None.

FY 2013: Increase is due to an economic assumption increase (\$0.010 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	PE 1160422BB: <i>Aviation Engineering Analysis</i>

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160422BB: <i>Aviation Engineering Analysis</i>	PROJECT SF101: <i>Aviation Engineering Analysis</i>
---	--	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
SF101: <i>Aviation Engineering Analysis</i>	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project provides a rapid response capability to support SOF fixed wing aircraft and unmanned aircraft 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 aircraft 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. Also conducts risk reduction studies, analyses, and demonstrations to support emerging, time critical weapons and sensor enhancements.

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

	FY 2011	FY 2012	FY 2013
Title: Aviation Engineering Analysis	4.628	0.837	0.861
FY 2011 Accomplishments: Performed engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
FY 2012 Plans: Performs engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
FY 2013 Plans: Perform engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
Accomplishments/Planned Programs Subtotals	4.628	0.837	0.861

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>			PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	4.795	4.924	4.959	-	4.959	5.045	5.133	5.221	5.310	Continuing	Continuing
S225: <i>SOF Information and Broadcast Systems Adv Tech</i>	4.795	4.924	4.959	-	4.959	5.045	5.133	5.221	5.310	Continuing	Continuing

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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.942	4.924	4.899	-	4.899
Current President's Budget	4.795	4.924	4.959	-	4.959
Total Adjustments	-0.147	-	0.060	-	0.060
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.122	-			
• Other Adjustment	-0.025	-	0.060	-	0.060

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.147 million is due to economic assumption reductions (-\$0.025 million) and a transfer to Small Business Innovative Research (-\$0.122 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>

FY 2013: Increase is due to an economic assumption increase (\$.060 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>	PROJECT S225: <i>SOF Information and Broadcast Systems Adv Tech</i>
---	--	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S225: <i>SOF Information and Broadcast Systems Adv Tech</i>	4.795	4.924	4.959	-	4.959	5.045	5.133	5.221	5.310	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

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

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

	FY 2011	FY 2012	FY 2013
Title: MISO Modernization	4.795	4.924	4.959
FY 2011 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>	PROJECT S225: <i>SOF Information and Broadcast Systems Adv Tech</i>
---	--	---

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Transitioned previously developed technologies to programs of record such as Fly-Away Broadcast System and Media Production. These capabilities developed under the MISO modernization effort drastically enhanced the legacy programs and positioned the warfighter to fight future wars. <i>FY 2012 Plans:</i> Continues to transition previously developed technologies to programs of record. <i>FY 2013 Plans:</i> Continue to transition previously developed technologies to programs of record.			
Accomplishments/Planned Programs Subtotals	4.795	4.924	4.959

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Special Applications for Contingencies</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	15.785	5.045	17.058	-	17.058	17.352	17.659	17.964	18.269	Continuing	Continuing
9999: <i>Special Applications for Contingencies</i>	15.785	5.045	17.058	-	17.058	17.352	17.659	17.964	18.269	Continuing	Continuing

A. Mission Description and Budget Item Justification

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 set based on requirements validated through a specific Joint Staff/Office of the Secretary of Defense (OSD) chartered approval process.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	16.272	5.045	16.853	-	16.853
Current President's Budget	15.785	5.045	17.058	-	17.058
Total Adjustments	-0.487	-	0.205	-	0.205
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.404	-			
• Other Adjustment	-0.083	-	0.205	-	0.205

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.487 million is due to economic assumption reductions (-\$0.083 million), and a transfer of funds to Small Business Innovative Research (-0.404 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 0304210BB: <i>Special Applications for Contingencies</i>

FY 2013: Increase of \$0.205 million is due to economic assumption increase.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Special Applications for Contingencies</i>	PROJECT 9999: <i>Special Applications for Contingencies</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
9999: <i>Special Applications for Contingencies</i>	15.785	5.045	17.058	-	17.058	17.352	17.659	17.964	18.269	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project develops and deploys special capabilities to perform intelligence, surveillance, and reconnaissance (ISR) 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 and Development (R&D) for relatively low cost solutions to provide remotely controlled system emplacement and data infiltration. 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 set based on requirements validated through a specific Joint Staff/OSD chartered approval process.

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

	FY 2011	FY 2012	FY 2013
Title: SAFC Contingencies	15.785	5.045	17.058
FY 2011 Accomplishments: Continued development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continued to evaluate unique sensor technologies, persistent stare and quick reaction systems.			
FY 2012 Plans: Continue development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continue to evaluate unique sensor technologies, persistent stare and quick reaction systems.			
FY 2013 Plans: Continues development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continues to evaluate unique sensor technologies, persistent stare and quick reaction systems.			
Accomplishments/Planned Programs Subtotals	15.785	5.045	17.058

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• 1105234BB: <i>STUASLO</i>	12.081	12.276	12.945		12.945	13.166	13.398	13.630	13.875	Continuing	Continuing

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Special Applications for Contingencies</i>	PROJECT 9999: <i>Special Applications for Contingencies</i>

D. Acquisition Strategy

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

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Special Applications for Contingencies</i>	PROJECT 9999: <i>Special Applications for Contingencies</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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	[REDACTED]																											
ISR Technology Integration & Testing	[REDACTED]																											
ISR Prototype Demonstrations	[REDACTED]																											
ISR Combat Evaluation	[REDACTED]																											

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Special Applications for Contingencies</i>	PROJECT 9999: <i>Special Applications for Contingencies</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development	1	2011	4	2016
ISR Technology Integration & Testing	1	2011	4	2016
ISR Prototype Demonstrations	1	2011	4	2016
ISR Combat Evaluation	1	2011	4	2016

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 0305208BB: <i>Distributed Common Ground/Surface Systems</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	1.283	1.303	7.114	-	7.114	5.767	6.784	5.989	6.091	Continuing	Continuing
S400A: <i>Distributed Common Ground/Surface Systems</i>	1.283	1.303	7.114	-	7.114	5.767	6.784	5.989	6.091	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.290	4.303	4.389	-	4.389
Current President's Budget	1.283	1.303	7.114	-	7.114
Total Adjustments	-0.007	-3.000	2.725	-	2.725
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.007	-	2.725	-	2.725

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.007 million due to economic assumption reductions.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 0305208BB: <i>Distributed Common Ground/Surface Systems</i>

FY 2012: Decrease of \$3.000 million due to a congressional directed reduction.

FY 2013: Increase of \$2.725 million is due to a reprogramming (\$2.640 million) to support development, integration, and testing of the DCGS Enterprise, and an economic assumption increase (\$0.085 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				PE 0305208BB: <i>Distributed Common Ground/Surface Systems</i>				S400A: <i>Distributed Common Ground/Surface Systems</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S400A: <i>Distributed Common Ground/Surface Systems</i>	1.283	1.303	7.114	-	7.114	5.767	6.784	5.989	6.091	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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

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

	FY 2011	FY 2012	FY 2013
Title: Distributed Common Ground/Surface System	1.283	1.303	7.114
FY 2011 Accomplishments: Achieved Milestone B. Continued to integrate the SOF-unique systems and Multi-INT sensors into service-common capabilities. Commenced developmental test and evaluation efforts in classified and unclassified test environments. Commenced development of DCGS-SOF v1.0 baseline and conducted DCGS-SOF limited objective events and Empire Challenge exercise demonstrations.			
FY 2012 Plans: Achieved Milestone C for DCGS Enterprise capability. Integrates emerging technologies and capabilities from DCGS family of systems partners and SOF C4 Partners into the DCGS-SOF baseline, commences test and evaluation of these technologies into this baseline, and conducts DCGS-SOF limited objective events and will participate in two Enterprise Resolve demonstrations.			
FY 2013 Plans: Integrate emerging technologies and capabilities for all source information fusion and initial integration of technology to enable disconnected operations into the DCGS-SOF baseline, commence test and evaluation of these technologies into this baseline, and conduct DCGS-SOF limited objective events and Enterprise Resolve demonstrations.			
Accomplishments/Planned Programs Subtotals	1.283	1.303	7.114

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305208BB: <i>Distributed Common Ground/Surface Systems</i>	PROJECT S400A: <i>Distributed Common Ground/Surface Systems</i>
---	--	---

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>DISTRIBUTED COMMON GROUND/SURFACE SYSTEM</i>	5.196	18.222	12.767		12.767	17.774	15.422	11.227	10.627	Continuing	Continuing

D. Acquisition Strategy

- DCGS will partner within DoD and with other government agencies to integrate mature technologies into the SOF information enterprise and enable more agile data and services to meet SOF-peculiar documented requirements. The technology will allow for seamless integration with DoD, interagency, and coalition ISR tactical PED systems.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305208BB: <i>Distributed Common Ground/ Surface Systems</i>	PROJECT S400A: <i>Distributed Common Ground/Surface Systems</i>
---	---	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	
DCGS Capabilities Modernization	Various	Various:Various	8.612	0.300	Jan 2012	2.940	Jan 2013	-		2.940	Continuing	Continuing	
Development and Integration	C/FFP	SITEC (TBD):TBD	-	-	Jan 2012	0.685	Jan 2013	-		0.685	Continuing	Continuing	
Independent Verification and Validation	MIPR	MITRE:Bedford, MA	-	0.274	Oct 2011	0.286	Oct 2012	-		0.286	Continuing	Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	1.788	-		-		-		-	0.000	1.788	
Subtotal			10.400	0.574		3.911		-		3.911			

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	
DCGS Support	C/FFP	SITEC (TBD):TBD	-	-	Jan 2012	0.914	Jan 2013	-		0.914	Continuing	Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	0.576	-		-		-		-	0.000	0.576	
Subtotal			0.576	-		0.914		-		0.914			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	
DCGS Test and Evaluation	MIPR	SPAWAR:Charleston, SC	0.853	0.230	Oct 2011	0.235	Oct 2012	-		0.235	Continuing	Continuing	
DCGS Independent Verification and Validation	MIPR	MITRE:Bedford, MA.	1.141	0.273	Oct 2011	0.288	Oct 2012	-		0.288	Continuing	Continuing	
Interoperability Support	MIPR	JITC:Ft Huachuca, AZ	0.196	-	Jan 2012	0.286	Jan 2013	-		0.286	Continuing	Continuing	
Interoperability Testing	C/FFP	SITEC (TBD):TBD	-	0.226	Apr 2012	1.480	Apr 2013	-		1.480	Continuing	Continuing	
Subtotal			2.190	0.729		2.289		-		2.289			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305208BB: <i>Distributed Common Ground/ Surface Systems</i>	PROJECT S400A: <i>Distributed Common Ground/Surface Systems</i>
---	---	---

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Distributed Common Ground/Surface Systems (DCGS) Integration and ETIs	1	2011	4	2017
Milestone B Acquisition Decision	2	2011	2	2011
Milestone C Acquisition Decision	1	2012	1	2012
DCGS-SOF Developmental Testing	2	2011	4	2017
SOF PED Enterprise Enhancements	2	2011	4	2017
DCGS v1.0 Operational Testing (SOF Data Layer Enterprise Portal)	2	2012	3	2012
DCGS v2.0 Operational Testing (SOF Data Layer, Data Engine, GEOINT, Fusion)	3	2012	4	2012
DCGS v3.0 Operational Testing (SIGINT FOC, All Source Intelligence Fusion Inc 1)	2	2014	3	2014
DCGS v4.0 Operational Testing (Enhanced Full Motion Video Arch, ASIF Inc 2)	2	2015	3	2015
DCGS Limited Objective Event & Enterprise Resolve - FY11	2	2011	4	2011
DCGS Limited Objective Event & Enterprise Resolve - FY12 (Sensor Web and Trident Warror)	1	2012	4	2012
DCGS Limited Objective Event & Enterprise Resolve - FY13	1	2013	4	2013
DCGS Limited Objective Event & Enterprise Resolve - FY14	1	2014	4	2014
DCGS Limited Objective Event & Enterprise Resolve - FY15	1	2015	4	2015
DCGS Limited Objective Event & Enterprise Resolve - FY16	1	2016	4	2016
DCGS Limited Objective Events & Enterprise Resolve - FY17	1	2017	4	2017

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	3.598	2.499	1.355	-	1.355	2.058	1.933	2.891	2.940	Continuing	Continuing
S400B: <i>MQ-1 Predator A UAV</i>	3.598	2.499	1.355	-	1.355	2.058	1.933	2.891	2.940	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits on the MQ-1 Unmanned Aerial Vehicle (UAV) 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 acquisition.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	0.098	2.499	1.339	-	1.339
Current President's Budget	3.598	2.499	1.355	-	1.355
Total Adjustments	3.500	-	0.016	-	0.016
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.500	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	0.016	-	0.016

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S400B: *MQ-1 Predator A UAV*

Congressional Add: *MQ-1 Predator A UAV*

Congressional Add Subtotals for Project: S400B

Congressional Add Totals for all Projects

	FY 2011	FY 2012
	3.500	-
Congressional Add Subtotals for Project: S400B	3.500	-
Congressional Add Totals for all Projects	3.500	-

Change Summary Explanation

Funding:

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 0305219BB: <i>MQ-1 Predator A UAV</i>

FY2011: Congressional add (\$3.500 million) to equip Army SOF Extended Range Multi-Purpose UAV with SOF capability.

FY2012: None.

FY2013: Increase is due to an economic assumption increase (\$0.016 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: <i>MQ-1 Predator A UAV</i>
---	--	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S400B: <i>MQ-1 Predator A UAV</i>	3.598	2.499	1.355	-	1.355	2.058	1.933	2.891	2.940	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project identifies, develops, and tests Special Operations Forces (SOF) organic MQ-1 UAV platforms, payloads, and control 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, and finish time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of intelligence, surveillance, reconnaissance, and target acquisition (ISR&T).

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

	FY 2011	FY 2012	FY 2013
Title: MQ-1 Predator A UAV	0.098	2.499	1.355
FY 2011 Accomplishments: Continued development, test, and integration of MQ-1 UAV payload and ground control station improvements.			
FY 2012 Plans: Continues development, test, and integration of MQ-1 UAV payload and ground control station improvements.			
FY 2013 Plans: Continue development, test, and integration of MQ-1 UAV payload and ground control station improvements.			
Accomplishments/Planned Programs Subtotals	0.098	2.499	1.355

	FY 2011	FY 2012
Congressional Add: MQ-1 Predator A UAV	3.500	-
FY 2011 Accomplishments: Continued development, test, and integration of MQ-1 UAV payload and ground control station improvements.		
Congressional Adds Subtotals	3.500	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: <i>MQ-1 Predator A UAV</i>
---	--	---

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>MQ-1 Unmanned Aerial Vehicle</i>	22.859	3.025	3.963		3.963	3.780	4.293	5.310	5.405	Continuing	Continuing

D. Acquisition Strategy

MQ-1 Predator A UAV is an evolutionary acquisition program that provides improvements to SOF MQ-1 aircraft, payloads, and ground control stations to increase the ISR&T acquisition capabilities of SOF.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: <i>MQ-1 Predator A UAV</i>
---	--	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-1 Predator Payloads and Ground Control Stations	C/Various	General Atomics Aeronautical Services:San Diego, CA	21.548	2.499	Mar 2012	1.355	Mar 2013	-		1.355	Continuing	Continuing	
Subtotal			21.548	2.499		1.355		-		1.355			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-1 Predator Payloads and Ground Control Stations	C/TBD	TBD:TBD	6.049	-		-		-		-	Continuing	Continuing	
Subtotal			6.049	-		-		-		-			

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-1 Predator Payloads and Ground Control Stations	C/Various	Booz Allen Hamilton:Dayton, OH	0.648	-		-		-		-	Continuing	Continuing	
Subtotal			0.648	-		-		-		-			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			28.245	2.499		1.355		-		1.355			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: <i>MQ-1 Predator A UAV</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>MQ-1 Predator Payloads and Ground Control Stations</i>	
Development/Integration	
Test & Evaluation/User Assessment	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305219BB: <i>MQ-1 Predator A UAV</i>	PROJECT S400B: <i>MQ-1 Predator A UAV</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MQ-1 Predator Payloads and Ground Control Stations</i>				
Development/Integration	1	2011	4	2017
Test & Evaluation/User Assessment	2	2012	4	2017

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	0.096	2.499	3.002	-	3.002	2.059	2.617	3.933	4.000	Continuing	Continuing
S851: <i>MQ-9 Unmanned Aerial Vehicle</i>	0.096	2.499	3.002	-	3.002	2.059	2.617	3.933	4.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits on the MQ-9 Unmanned Aerial Vehicle 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 acquisition.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	0.098	2.499	2.966	-	2.966
Current President's Budget	0.096	2.499	3.002	-	3.002
Total Adjustments	-0.002	-	0.036	-	0.036
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.002	-			
• Other Adjustment	-	-	0.036	-	0.036

Change Summary Explanation

Funding:

FY2011: Decrease is due to a transfer to Small Business Innovation Research (-\$0.002 million).

FY2012: None.

FY2013: Increase due to an economic assumption increase (\$0.036 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>	PROJECT S851: <i>MQ-9 Unmanned Aerial Vehicle</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S851: <i>MQ-9 Unmanned Aerial Vehicle</i>	0.096	2.499	3.002	-	3.002	2.059	2.617	3.933	4.000	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique modifications on MQ-9 Unmanned Aerial Vehicle, intelligence payloads, and control systems. As the supported combatant command in Overseas Contingency Operations (OCO), USSOCOM requires the capability to find, fix, and finish time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of intelligence, surveillance, reconnaissance, and target (ISR&T) acquisition.

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

	FY 2011	FY 2012	FY 2013
Title: MQ-9 Unmanned Aerial Vehicle	0.096	2.499	3.002
FY 2011 Accomplishments: Developed, tested, and integrated MQ-9 Unmanned Aerial Vehicle payload and ground control station improvements.			
FY 2012 Plans: Develops, tests, and integrates MQ-9 Unmanned Aerial Vehicle payload and ground control station improvements.			
FY 2013 Plans: Develop, test, and integrate MQ-9 Unmanned Aerial Vehicle payload and ground control station improvements.			
Accomplishments/Planned Programs Subtotals	0.096	2.499	3.002

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>MQ-9 Unmanned Aerial Vehicle</i>	6.322	3.024	3.952		3.952	4.743	4.304	4.304	5.419	Continuing	Continuing

D. Acquisition Strategy

MQ-9 Unmanned Aerial Vehicle is an evolutionary acquisition program that provides improvements to SOF MQ-9 aircraft, payloads, and ground control stations to increase the Intelligence Surveillance and Reconnaissance & Target (ISR&T) acquisition capabilities of Special Operations Forces (SOF).

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>	PROJECT S851: <i>MQ-9 Unmanned Aerial Vehicle</i>

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>	PROJECT S851: <i>MQ-9 Unmanned Aerial Vehicle</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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 Unmanned Aerial Vehicle																												
Development/Integration/Test																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105219BB: <i>MQ-9 Unmanned Aerial Vehicle</i>	PROJECT S851: <i>MQ-9 Unmanned Aerial Vehicle</i>
---	---	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MQ-9 Unmanned Aerial Vehicle</i>				
Development/Integration/Test	1	2011	4	2017

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105232BB: <i>RQ-11 UAV</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	1.500	-	-	-	-	-	-	-	Continuing	Continuing
S853: <i>RQ-11 UAV</i>	-	1.500	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

A new program element was established beginning in FY 2012 for RQ-11 class of SOF Small Unmanned Aircraft Systems (SUAS).

This program element identifies, investigates, develops, integrates, and tests Special Operations Forces (SOF) payload requirements and spiral development efforts for SUAS capabilities for standalone employment from world-wide ground locations, from manned/unmanned aircraft, or from maritime craft. 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.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	3.000	-	-	-
Current President's Budget	-	1.500	-	-	-
Total Adjustments	-	-1.500	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other	-	-1.500			

Change Summary Explanation

Funding:

FY 2011: None.

FY 2012: Decrease of \$1.500 million due to a reprogramming to higher command priorities.

FY 2013: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105232BB: <i>RQ-11 UAV</i>
---	--

Schedule None.

Technical None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105232BB: <i>RQ-11 UAV</i>	PROJECT S853: <i>RQ-11 UAV</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S853: <i>RQ-11 UAV</i>	-	1.500	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project addresses spiral development efforts validated in unmanned aircraft systems requirements documents; supports capabilities investigations; executes development testing; and integrates system payloads and upgrades for increased aircraft endurance, reduced aircraft signature, increased telemetry range, and increased payload capacity and capabilities for Small Unmanned Aircraft Systems to meet Special Operations Forces mission requirements. The Lethal Miniature Aerial Munitions System (LMAMS) will provide a new capability to effectively engage and retarget personnel/non-standard vehicle targets with precision munitions to deliver incapacitating effects using kinetic means against fixed and fleeting threat/target classes.

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

	FY 2011	FY 2012	FY 2013
Title: Lethal Miniature Aerial Munitions System (LMAMS)	-	1.500	-
FY 2012 Plans: Initiate payload development, test and evaluation of LMAMS.			
Accomplishments/Planned Programs Subtotals	-	1.500	-

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>RQ-11 Unmanned Aerial Vehicle</i>	2.078	0.486	2.062		2.062	1.163	9.243	7.387	7.366	Continuing	Continuing

D. Acquisition Strategy

Investigate and demonstrate possible small lethal miniature aerial munitions systems.

E. Performance Metrics

N/A

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105233BB: <i>RQ-7 UAV</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	2.900	-	-	-	-	-	-	-	0.000	2.900
S852: <i>RQ-7 UAV</i>	-	2.900	-	-	-	-	-	-	-	0.000	2.900

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	2.900	0.457	-	0.457
Current President's Budget	-	2.900	-	-	-
Total Adjustments	-	-	-0.457	-	-0.457
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.457	-	-0.457

Change Summary Explanation

Funding:

FY2011: None.

FY2012: None.

FY2013: Decrease is due to a realignment to higher command priorities (\$0.457 million).

Schedule: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105233BB: <i>RQ-7 UAV</i>
---	---

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1105233BB: <i>RQ-7 UAV</i>	PROJECT S852: <i>RQ-7 UAV</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S852: <i>RQ-7 UAV</i>	-	2.900	-	-	-	-	-	-	-	0.000	2.900
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project identifies, develops, integrates and tests Special Operations Forces (SOF) - unique mission kits for Groups 1-3 Unmanned Aircraft Systems (UAS). These mission kits enable SOF to meet continually evolving mission requirements. As the supported combatant command, USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations. USSOCOM requires the capability to find, fix, and finish time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of intelligence, surveillance, reconnaissance, and target acquisition.

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

	FY 2011	FY 2012	FY 2013
Title: Unmanned Aircraft Systems	-	2.900	-
FY 2012 Plans: Develops, tests and evaluates new payload technology.			
Accomplishments/Planned Programs Subtotals	-	2.900	-

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>RQ-7 UAV</i>	0.000	0.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.450

D. Acquisition Strategy

SOF unique mission kits will provide the capability to find, fix and finish high-value targets. A competitive source selection process will be conducted for the SOF-unique payloads. Proprietary considerations may direct some integration efforts to the original equipment manufacturer.

E. Performance Metrics

N/A.

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160279BB: <i>Small Business Innovative Research</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	9.079	-	-	-	-	-	-	-	-	Continuing	Continuing
S050: <i>Small Business Innovative Research</i>	9.079	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	9.079	-	-	-	-
Total Adjustments	9.079	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	9.079	-			
• Other Adjustment	-	-			

Change Summary Explanation

Funding:

FY 2011: Increase of \$9.079 million supports various efforts within the Small Business Innovative Research program.

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160279BB: <i>Small Business Innovative Research</i>

Schedule: None.

Technical: None

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160279BB: <i>Small Business Innovative Research</i>	PROJECT S050: <i>Small Business Innovative Research</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S050: <i>Small Business Innovative Research</i>	9.079	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project 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. The Small Business Innovative Research (SBIR) project is a result of the Small Business Development Act of 1992. It was enacted by Congress in Public Law 97-219, reenacted by Public Law 99-443, and reauthorized by the SBIR Program Reauthorization Act of 2001. Starting in FY 1994, the SBIR program was refocused toward dual use and defense reinvestment efforts. Phase I projects evaluate the scientific technical merit and feasibility of an idea. Awards are up to \$0.100 million with a maximum six-month period of performance. Phase II projects expand the results of, and further pursue, the developments of Phase I. Awards are up to \$0.750 million with a maximum two-year period of performance. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. DOD publishes government agency proposal projects twice per year for a consolidated DoD Request for Proposal. USSOCOM then awards its proposed SBIR projects.

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

	FY 2011	FY 2012	FY 2013
Title: Small Business Innovative Research	9.079	-	-
FY 2011 Accomplishments: Initiated multiple Phase I and Phase II awards for SBIR Topics: Synthetic Biometric Image Generator; Cultural Intelligence Wikiberry; Micro Digital Displays; Airborne Direction Finding; Free Swimming Special Operations Forces Diver Protection System, providing laceration, abrasion, and puncture protection; and the Lightweight, Small Volume, CO2 Removal Technology for Underwater Breathing Apparatus (UBA) and Undersea Platforms.			
Accomplishments/Planned Programs Subtotals	9.079	-	-

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>										
Total Program Element	65.851	74.382	97.267	-	97.267	64.688	54.078	18.369	14.506	Continuing	Continuing
SF100: <i>SO Aviation Systems Advanced Development</i>	65.851	74.382	97.267	-	97.267	64.688	54.078	18.369	14.506	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element 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, terrain following/terrain avoidance radar; Precision Strike Package for MC-130W Multi-Mission Modification, AC-130H Recapitalization, and other SOF airborne platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation, target detection, and identification technologies; digital broadcast capabilities; and aerial refueling.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	68.691	89.382	93.596	-	93.596
Current President's Budget	65.851	74.382	97.267	-	97.267
Total Adjustments	-2.840	-15.000	3.671	-	3.671
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-15.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.785	-			
• SBIR/STTR Transfer	-1.706	-			
• Other Adjustments	-0.349	-	3.671	-	3.671

Change Summary Explanation

Funding:

FY 2011: Net decrease of \$2.840 million due to reprogramming to higher command priorities (-\$1.578 million), EC-130J Multi-Mission Upgrades (+\$0.793 million), economic assumption reduction (-\$0.349 million) and a transfer of funds to Small Business Innovative Research (-\$1.706 million).

FY 2012: Decrease is due to a congressional directed reduction (\$15.000 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>

FY 2013: Net increase of \$3.671 million due to reprogramming of Enhanced Situational Awareness for MC-130H (\$1.800 million). Terrain Following/Terrain Avoidance Radar (\$4.316), economic assumptions increase (\$1.170 million) and a reprogramming to higher command priorities (-\$3.615 million).

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>				SF100: <i>SO Aviation Systems Advanced Development</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
SF100: <i>SO Aviation Systems Advanced Development</i>	65.851	74.382	97.267	-	97.267	64.688	54.078	18.369	14.506	Continuing	Continuing
Quantity of RDT&E Articles											

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; Precision Strike Package (PSP) for MC-130W Multi-Mission Modification, AC-130H replacement aircraft, and other SOF platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; 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 and identification technologies; digital broadcast capability; and aerial refueling.

- SOF C-130 Avionics Modifications. Provides for development necessary to maintain current SOF-unique capabilities for SOF C-130 aircraft. Includes the fit/function/interface replacement of the mission computers on the MC-130H and AC-130U aircraft due to obsolescence issues with the current AP-102 mission computer.
- EC-130J Commando Solo Upgrades. Provides for integration of SOF-unique implementation of the C-130J block cycle upgrade as installed on the EC-130J Commando Solo aircraft and development of digital broadcast capabilities.
- Enhanced Situational Awareness for MC-130H. Provides for near-real-time intelligence to include data fusion, threat detection, identification, and avoidance; electronic support measures for threat geo-location and specific emitter identification. This program is a new start in FY 2013.
- PSP MC-130W Multi-Mission Modification. Fulfills an urgent combat requirement to rapidly arm and field multi-mission precision strike platforms. Provides an armed over-watch capability including sensors, communication systems, precision guided munitions, and a single medium-caliber gun. An interim kit was fielded and funded under a Combat Mission Needs Statement.
- 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 replacement aircraft, as well as other SOF platforms. Missions for the AC-130H 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, and includes mission management, sensors, and weapons.
- C-130 Terrain Following Radar System. Integrates a TF/TA radar with an on-board processor to provide a multi-mode terrain following capability. This system is targeted for the MC-130J, MC-130W, and MC-130H platforms.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>
---	---	--

- Acquisition Development Support. This funding is required to support systems engineering, analysis, and integration. Primary use of funds is to examine commonality and interoperability across systems. Funding will be used in a multitude of avenues across systems to support cost-benefit analysis; provide additional test support; and further reduce cost, schedule, and technical risk. As required, funds will support manpower costs for experts needed to meet certification, safety, reliability, and other requirements required by Office of the Secretary of Defense, Acquisition, Technology and Logistics, as well as commitments for joint programs.

- SOF Common terrain following/terrain avoidance (TF/TA) (Silent Knight) Radar. Continues Engineering and Manufacturing Development of a SOF common low probability of intercept/low probability of detection (LPI/LPD) radar to defeat advanced passive detection threats while maintaining ability to fly safe TF. This radar is targeted for use on all MH-47G Heavy Assault helicopters, MH-60M Blackhawk helicopters, MC-130H Combat Talon II and CV-22 Tilt-Rotor aircraft.

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

	FY 2011	FY 2012	FY 2013
<p>Title: SOF C-130 Avionics Modifications</p> <p>FY 2011 Accomplishments: Continued development and integration of aircraft modifications to maintain SOF-unique capabilities executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence dates, to include MC-130H and AC130U mission computer replacement.</p> <p>FY 2012 Plans: Continues development and integration of aircraft modifications to maintain SOF-unique capabilities executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence dates, to include MC-130H and AC130U mission computer replacement.</p>	10.231	8.550	-
<p>Title: EC-130J Commando Solo Upgrades</p> <p>FY 2011 Accomplishments: Integrated SOF-unique implementation of the C-130J block cycle upgrade installed on the EC-130J Commando Solo aircraft. Developed and integrated digital broadcast capability for incorporation on EC-130J.</p> <p>FY 2012 Plans: Continues integration of SOF-unique implementation of the C-130J block cycle upgrade installed on the EC-130J Commando Solo aircraft and development of digital broadcast capabilities.</p> <p>FY 2013 Plans: Continue integration of SOF-unique implementation of the C-130J block cycle upgrade installed on the EC-130J Commando Solo aircraft and development of digital broadcast capabilities.</p>	2.357	1.782	0.673
<p>Title: Enhanced Situational Awareness for MC-130H</p> <p>FY 2013 Plans:</p>	-	-	1.800

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
FY 2013 new start. Initiate risk reduction, development and integration of an enhanced situational awareness system on MC-130H aircraft.				
Title: Precision Strike Package (PSP) MC-130W Multi-Mission Modification		6.307	-	-
FY 2011 Accomplishments: Continued software development, integration, and test for updated PSP capabilities.				
Title: Precision Strike Package (PSP) for SOF		4.651	26.193	29.351
FY 2011 Accomplishments: Initiated risk reduction, development and integration of the PSP on MC-130J aircraft, and continued system improvements.				
FY 2012 Plans: Continues development, integration, risk reduction, test and system improvement of the PSP on MC-130J aircraft.				
FY 2013 Plans: Continue development, integration, test, and system improvement of the PSP on MC-130J aircraft.				
Title: C-130 Terrain Following Radar System		1.930	17.536	37.523
FY 2011 Accomplishments: Initiated development and integration of a LPI/LPD TF Radar System onto SOF MC-130 platforms.				
FY 2012 Plans: Continues development and integration of the TF Radar System onto SOF MC-130 platforms.				
FY 2013 Plans: Continue development and integration of the TF Radar System onto SOF MC-130 platforms.				
Title: Acquisition Development Support		0.925	-	-
FY 2011 Accomplishments: Conducted engineering, analysis and integration support across a multitude of systems to examine commonality and interoperability across systems; to support cost-benefit analyses; to provide additional test support; and further reduce cost, schedule, and technical risk.				
Title: SOF Common Terrain Following/Terrain Avoidance (TF/TA) (Silent Knight) Radar		39.450	20.321	27.920
FY 2011 Accomplishments:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>
---	---	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Continued Engineering and Manufacturing Development (EMD) of SOF Common TF/TA radar. Continued contractor flight testing and platform integration. FY 2012 Plans: Continues EMD of SOF Common TF/TA radar. Continues contractor flight testing and platform integration. Begins developmental flight testing. FY 2013 Plans: Continue EMD of SOF Common TF/TA radar. Continue developmental flight testing.			
Accomplishments/Planned Programs Subtotals	65.851	74.382	97.267

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>C-130 MODIFICATIONS</i>	8.907	27.965	25.248		25.248	28.367	15.332	27.161	90.351	Continuing	Continuing
• PROC2: <i>PRECISION STRIKE PACKAGE</i>	0.000	0.000	73.013		73.013	137.944	181.218	265.073	297.957	Continuing	Continuing
• PROC3: <i>Rotary Wing Upgrades and Sustainment</i>			4.400		4.400	16.706	69.790	70.471	62.935	Continuing	Continuing

D. Acquisition Strategy

- SOF C-130 Avionics Modifications. Develop a fit function and interface replacement mission computer and rehost existing Operational Flight Program and Fire Control Software. Effort is being executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence mitigation need dates.
- EC-130J Commando Solo Upgrades. Block 7.0 is being develop by the Air Force program office using existing development and production contracts. Digital broadcast capabilities are being procured through an incremental acquisition strategy to incorporate and test readily available equipment into the EC-130J aircraft.
- Enhanced Situational Awareness for MC-130H. Award competitive development contract to add situational awareness processors and displays.
- Precision Strike Package (PSP) MC-130W Multi-Mission Modification. Executing incremental acquisition strategy with development, integration and testing for offensive systems, sensors, and mission management.
- PSP for SOF. Incremental acquisition strategy to integrate and test the PSP on MC-130J aircraft provided by the U.S. Air Force and other SOF platforms. Multiple contract awards.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	SF100: <i>SO Aviation Systems Advanced Development</i>

- C-130 Terrain Following Radar System. Award competitive EMD contract for development, integration and test.

- Acquisition Development Support. Conduct engineering, analysis and integration support across a multitude of systems to examine commonality and interoperability issues to ensure cost, schedule and technical issues are addressed.

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

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>
---	---	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF C-130 Avionics Modifications	C/FFP	BAE Systems:Rockville, MD	13.192	8.550	May 2012	-		-		-	0.00	21.742	
EC-130J Commando Solo Upgrades	C/CPIF	Lockheed Martin Aero:Marietta, GA	3.791	1.782	Dec 2011	0.673	Dec 2012	-		0.673	Continuing	Continuing	
Precision Strike Package for SOF - Prime Mission Product	SS/Various	Various:Various	4.267	24.740	Mar 2012	29.351	Mar 2013	-		29.351	Continuing	Continuing	
SOF Common TF/TA (Silent Knight) Radar - Systems Engineering	C/CPIF	Raytheon:Dallas, TX	14.407	1.016	Dec 2011	1.396	Dec 2012	-		1.396	Continuing	Continuing	
SOF Common TF/TA (Silent Knight) Radar - Prime Mission Product	C/CPIF	Raytheon:Dallas, TX	76.927	1.016	Dec 2011	1.396	Dec 2012	-		1.396	Continuing	Continuing	
C-130 Terrain Following Radar System	C/TBD	TBD:TBD	1.930	17.536	Feb 2012	37.523	Dec 2012	-		37.523	Continuing	Continuing	
Enhanced Situational Awareness for MC-130H	C/TBD	TBD:TBD	-	-		1.800	Dec 2012	-		1.800	Continuing	Continuing	
Prior Year Funding - Completed Efforts	TBD	Various:Various	63.939	-		-		-		-	0.000	63.939	
Subtotal			178.453	54.640		72.139		-		72.139			

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Precision Strike Package for SOF	C/Various	Various:Various	0.384	1.453	Mar 2012	-		-		-	Continuing	Continuing	
Prior Year Funding - Completed Efforts	TBD	Various:Various	22.334	-		-		-		-	0.000	22.334	
Subtotal			22.718	1.453		-		-		-			

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>
---	---	--

FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
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 C-130 Avionics	
SOF C-130 Avionics Modifications	
EC-130J Commando Solo Upgrades	
EC-130J Commando Solo Upgrades	
Enhanced Situational Awareness for MC-130H	
Enhanced Situational Awareness for MC-130H	
Precision Strike Package	
Precision Strike Package for SOF	
C-130 Terrain Following Radar System	
C-130 Terrain Following Radar System	
SOF Common TF/TA (Silent Knight) Radar	
Prototype Integration and Testing	
Developmental Testing (DT)	
Operational Testing (Combined with DT)	
Follow-On Platform Integration and Testing	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160403BB: <i>Special Operations Aviation Systems Advanced Development</i>	PROJECT SF100: <i>SO Aviation Systems Advanced Development</i>
---	---	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF C-130 Avionics</i>				
SOF C-130 Avionics Modifications	3	2011	4	2014
<i>EC-130J Commando Solo Upgrades</i>				
EC-130J Commando Solo Upgrades	1	2011	4	2017
<i>Enhanced Situational Awareness for MC-130H</i>				
Enhanced Situational Awareness for MC-130H	1	2013	4	2016
<i>Precision Strike Package</i>				
Precision Strike Package for SOF	1	2011	4	2017
<i>C-130 Terrain Following Radar System</i>				
C-130 Terrain Following Radar System	1	2011	4	2017
<i>SOF Common TF/TA (Silent Knight) Radar</i>				
Prototype Integration and Testing	1	2011	4	2011
Developmental Testing (DT)	2	2011	4	2014
Operational Testing (Combined with DT)	4	2011	4	2014
Follow-On Platform Integration and Testing	1	2013	4	2017

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160404BB: <i>Special Operations Tactical Systems Development</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	1.534	0.799	0.821	-	0.821	0.834	0.848	0.863	0.877	Continuing	Continuing
S710: <i>SO Tactical Systems (Automation)</i>	1.534	0.799	0.821	-	0.821	0.834	0.848	0.863	0.877	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized automation equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.582	0.799	0.811	-	0.811
Current President's Budget	1.534	0.799	0.821	-	0.821
Total Adjustments	-0.048	-	0.010	-	0.010
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.040	-			
• Other Adjustment	-0.008	-	0.010	-	0.010

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.048 million due to economic assumption reductions (-\$0.008 million), and a transfer of funds to Small Business Innovative Research (-\$0.040 million).

FY2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160404BB: <i>Special Operations Tactical Systems Development</i>

FY 2013: Increase of \$0.010 million due to economic assumption increase.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160404BB: <i>Special Operations Tactical Systems Development</i>	PROJECT S710: <i>SO Tactical Systems (Automation)</i>
---	--	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S710: <i>SO Tactical Systems (Automation)</i>	1.534	0.799	0.821	-	0.821	0.834	0.848	0.863	0.877	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized automation equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

- The Tactical Local Area Network (TACLAN) provides SOF operational commanders and forward deployed forces advanced automated data processing and display capabilities to support situational awareness, mission planning and execution, and command and control of forces. The program consists of suites, mission planning kits and field computing devices.

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: TACLAN Suites	1.534	0.799	0.821	-	0.821
FY 2011 Accomplishments: Conducted research and development on several emerging technologies available to the SOF Force. Capabilities include: Single Sign On, Full Motion Video, Radio Over Internet Protocol (ROIP) using Wide Area Voice Environment (WAVE), Solarwinds Network Management, Secure Wireless, and Lightweight UPS capability.					
FY 2012 Plans: Continues development and integration of evolutionary technology insertions (ETI) such as data at rest, thin client capabilities, smart phone connectivity, Full Motion Video (FMV), and cross domain solutions.					
FY 2013 Base Plans:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160404BB: <i>Special Operations Tactical Systems Development</i>	PROJECT S710: <i>SO Tactical Systems (Automation)</i>
---	--	---

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Continue development and integration of evolutionary technology insertions (ETI) such as data at rest, thin client capabilities, wireless/personal digital assistant (PDA)/smartphone technologies, Full Motion Video (FMV) and cross domain solutions.					
Accomplishments/Planned Programs Subtotals	1.534	0.799	0.821	-	0.821

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>Automation Systems</i>	55.645	64.619	66.573	1.000	67.573	52.460	51.769	46.758	51.912	Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE										
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>										
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	34.789	27.916	25.935	-	25.935	4.607	4.678	4.759	4.843	Continuing	Continuing
S400: <i>SO Intelligence Systems</i>	34.789	27.916	25.935	-	25.935	4.607	4.678	4.759	4.843	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	33.319	27.916	28.380	-	28.380
Current President's Budget	34.789	27.916	25.935	-	25.935
Total Adjustments	1.470	-	-2.445	-	-2.445
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	1.470	-	-2.445	-	-2.445

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S400: *SO Intelligence Systems*

Congressional Add: *National Systems Support to SOF - Single Card Solution*

	FY 2011	FY 2012
Congressional Add Subtotals for Project: S400	1.592	-
Congressional Add Totals for all Projects	1.592	-

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command	DATE: February 2012
---	----------------------------

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>
---	--

Change Summary Explanation

Funding:

FY 2011: Net increase of \$1.470 million due to an increase for a congressional add (\$1.592 million) for National Systems Support for SOF Single Card Solution and a decrease due to economic assumption reductions (-\$0.122 million).

FY 2012: None.

FY 2013: Net decrease of -\$2.445 million is due to reprogramming to higher command priorities (-\$2.756 million) and an economic assumption increase (\$0.311 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S400: <i>SO Intelligence Systems</i>	34.789	27.916	25.935	-	25.935	4.607	4.678	4.759	4.843	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project provides for the identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. The systems developed in this line item are National Systems Support to SOF (NSSS); Joint Threat Warning System (JTWS); Counter-Proliferation Analysis and Planning System (CAPS); and Special Operations Command Research, Analysis and Threat Evaluation System (SOCRATES).

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 is a research and development rapid prototyping program which functions as HQSOCOM's Tactical Exploitation of National Capabilities (TENCAP) program. NSSS improves the combat effectiveness of USSOCOM, its components, and the Theater Special Operations Commands (TSOCs) by leveraging National Agency and Service development efforts focused on improving space-based intelligence products and communications and special communications capabilities to tactical SOF units, to include geographic intelligence (GEOINT), Signal Intelligence (SIGINT), Special Communications, and Intelligence Fusion, Reporting, Dissemination and Processing. The Research and Development (R&D) efforts pursued by NSSS are of a rapid development, fielding and deployment character and focus on USSOCOM's man-hunting mission. Though not exclusive, they are usually adjunct support efforts to USSOCOM's existing Military Intelligence Programs (MIP), to include SOCRATES, Global Video Surveillance, Hostile Forces - Tagging, Tracking, and Locating (HF-TTL) , JTWS, Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF), Friendly Force Tracking, and Tactical Local Area Network (TACLAN).
- JTWS is an evolutionary acquisition (EA) program 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 (SO) teams and aircrews in every operational environment. This state-of-the-art technology enables SOF operators to provide critical time sensitive targeting and actionable intelligence to the operational commander during mission execution. Intelligence derived from operations supports campaign objectives and the National Military Strategy. This system has variants that utilize common technologies

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	S400: <i>SO Intelligence Systems</i>

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, Team Transportable GSK static, Air, Maritime, and Precision Geo-Location (Ground and Air).

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, and the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Defense Program has consolidated RDT&E funding at USSOCOM for overall program management. U.S. Strategic Command serves as the coordinator for CAPS production requirements and provides O&M funding. The Defense Threat Reduction Agency (DITRA) provides science and technology expertise and integration support to enhance CAPS capabilities. CAPS provides tools and assessments to DoD and SOF mission planners to aid in worldwide identification and analysis of suspected weapons of mass destruction and potential targets; assesses the associated effectiveness, costs and risks of various CP options and their collateral effects; and develops alternative plans. CAPS is a primary source of CP mission planning information for Combatant Commanders who are the principal customers. CAPS requires ongoing development, integration and testing of leading edge technology for operational planning and processes in order to provide the best possible engineering analysis and to support consequence engineering to meet changing threats. CAPS program funding and responsibility transfers to the Defense Intelligence Agency (DIA) for consolidation and interface with DIA's Counter Weapons of Mass Destruction (CWMD) Analysis Cell (CWAC) beginning in FY 2014.
- SOCRATES is an umbrella program that acquires and supports the network and computing infrastructure for SOF intelligence information up to and including the Top Secret, Sensitive Compartmented Information (TS/SCI) level. SOCRATES integrates intelligence information from national, theater, Service and SOF-specific databases; provides news service and message traffic; automated imagery processing, dissemination, and archival; analyst-to-analyst electronic mail and collaborative tools; web interfaces/search capabilities and browse-down capability to Secret web servers; and secure voice and facsimile. It provides a seamless and interoperable interface enabling SOF-unique intelligence support to mission planning and intelligence preparation of the battle space.
- Classified. Provided under separate cover.
- This project includes the following Congressional add:
 - National Systems Support to SOF Single Card Solution effort was to redesign the L-band Single Card Solution (SCS) radio circuits to increase the frequency range to be compatible with USAF and Civil Aviation Identification Friend or Foe (IFF) bands. The resulting design, with further work, will be integrated into the cooperative updating identification aid for dismounted operations (CUIDADO) handset to provide ground forces the capability to respond to air-to-ground/surface/UAS IFF interrogations from USAF assets to establish their friendly status. This unprecedented capability will be an advancement in preventing air-to-ground fratricides and assist in recovery/extraction operations.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p>Title: Counter-Proliferation Analysis and Planning System</p> <p>FY 2011 Accomplishments: Completed Spiral 10 and began Spiral 11 development of CAPS engineering assessments, analytical process tools, and network interfaces for product dissemination to DoD and Combatant Command mission planners.</p> <p>FY 2012 Plans: Completes Spiral 11 and begins Spiral 12 development of CAPS engineering assessments, analytical process tools, and network interfaces for product dissemination to DoD and Combatant Command mission planners.</p> <p>FY 2013 Base Plans: Complete Spiral 12 and begin Spiral 13 development of CAPS engineering assessments, analytical process tools, and network interfaces for product dissemination to DoD and Combatant Command mission planners.</p>	17.412	21.230	21.394	-	21.394
<p>Title: National Systems Support to SOF</p> <p>FY 2011 Accomplishments: Developed SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the National Intelligence Community (NIC), while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas included ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces as well as Blue-Force Tracking (BFT), especially in system-challenged environments.</p> <p>FY 2011 Overseas Contingency Operations (OCO) Title IX Accomplishments: Conducted research and development of advanced, low power unattended ground sensor technologies.</p> <p>FY 2012 Plans: Develops SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces as well as BFT, especially in system-challenged environments.</p> <p>FY 2013 Base Plans: Develop SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging,</p>	0.974	0.756	0.783	-	0.783

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
---	----------------	----------------	---------------------	--------------------	----------------------

Tracking, and higher-accuracy Geolocating hostile forces, as well as, BFT, especially in system-challenged environments.					
--	--	--	--	--	--

<p>Title: Special Operations Command Research, Analysis, and Threat Evaluation System</p> <p>FY 2011 Accomplishments: Integrate SOF Intelligence Data Management System (SIDMS) to the SOF data layer to enable interoperability with the Defense Intelligence Information Enterprise to support net-centric data sharing with USSOCOM partners using the DCGS-SOF. Developed, integrated and tested technology upgrades and experimental technologies to include advanced data automation; testing of techniques for integrating metadata into existing SOF data repositories; developed a Java-compliant machine language translation; protection level 3 integration; and developed a data warehousing capability.</p> <p>FY 2012 Plans: Continues to integrate SIDMS to the SOF data layer to enable interoperability with the Defense Intelligence Information Enterprise to support net-centric data sharing with USSOCOM partners using the DCGS-SOF. Develops, integrates and tests technology upgrades and experimental technologies to include advanced data automation; testing of techniques for integrating metadata into existing SOF data repositories; develops a Java-compliant machine language translation; protection level 3 integration; and develops a data warehousing capability.</p>	1.508	2.113	-	-	-
---	-------	-------	---	---	---

<p>Title: Joint Threat Warning System</p> <p>FY 2011 Accomplishments: Completed evolutionary technology insertions (ETI) development and testing to integrate Picoceptor into GSK body worn/mobile and static systems. Integrated Precision Geo-location capabilities into Air Variant payloads.</p> <p>FY 2012 Plans: Continues networking and testing within the JTWS Family of Systems and implements Time Difference of Arrival. Completes Air Special Signals Processor integration and automation and begins Maritime variant development, integration and automation. Begins development, integration and automation of JTWS Maritime variant.</p> <p>FY 2013 Base Plans:</p>	3.863	3.817	3.758	-	3.758
--	-------	-------	-------	---	-------

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Complete networking and testing within the JTWS Family of Systems and implement Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continue development, integration and testing of JTWS Maritime variant.					
Title: Joint Threat Warning System Unmanned Aerial Vehicle (UAV) SIGINT Payload (Overseas Contingency Operations (OCO) Title IX) FY 2011 Accomplishments: Completed the development, integration and testing of JTWS UAV SIGINT Payloads on to the Scan eagle UAV. Performed an initial assessment of the technology feasibility of integrating a new dual-band SIGINT payload.	9.440	-	-	-	-
Accomplishments/Planned Programs Subtotals	33.197	27.916	25.935	-	25.935

	FY 2011	FY 2012
Congressional Add: National Systems Support to SOF - Single Card Solution FY 2011 Accomplishments: Redesigned the L-band Single Card Solution radio circuits to increase frequency range to be compatible with USAF and civil aviation Identification Friend or Foe bands.	1.592	-
Congressional Adds Subtotals	1.592	-

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>Intelligence Systems</i>	186.690	123.760	71.428	30.528	101.956	91.765	82.474	81.199	85.014	Continuing	Continuing

D. Acquisition Strategy

- NSSS to SOF is a project to introduce and integrate national systems capabilities into the SOF force structure and operations. Activities include increasing national and commercial systems awareness, demonstrating the tactical utility of national systems and commercial data, testing technologies and evaluating operational concepts in biennial Joint Staff Special Projects, and transitioning promising concepts and technologies to other SOF program offices for execution.
- JTWS is an EA program that provides threat warning, force protection, enhanced situational awareness, and target identification/ acquisition information to SOF via signals intercept, direction finding and SIGINT. This program will employ continuing technology updates to address the changing threat environment.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	S400: <i>SO Intelligence Systems</i>

- CAPS is an on-going developmental initiative chartered by the Assistant to the Secretary of Defense for Nuclear, Chemical and Biological Defense Programs, which was transferred to USSOCOM from DTRA to develop, integrate and test "leading edge technology" for operational planning, to provide engineering analysis and support consequence engineering tools to meet changing threats.

- SOCRATES will integrate a SOF-peculiar cross-domain solution to support the seamless integration of intelligence data into mission planning and command and control capabilities in both a garrison and tactical environment. USSOCOM will leverage available funds against ongoing efforts by other government agencies to meet SOF-peculiar documented requirements.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Threat Warning System (JTWS)-Air Increment 2	MIPR	SPAWAR:Charleston, SC	2.990	0.690	Nov 2011	0.705	Nov 2012	-		0.705	Continuing	Continuing	
JTWS-Team Transportable - Ground Signal Intelligence Kit (GSK) Static	Reqn	USSOCOM SIGINT REV:Various	9.314	0.266	Nov 2011	0.270	Nov 2012	-		0.270	Continuing	Continuing	
JTWS-GSK, Inc 2	Reqn	USSOCOM SIGINT REV:Various	15.964	1.323	May 2012	1.233	May 2013	-		1.233	Continuing	Continuing	
JTWS-Maritime	Reqn	USSOCOM SIGINT REV:Various	0.198	0.450	Nov 2011	0.454	Nov 2012	-		0.454	Continuing	Continuing	
JTWS-NSA Intern Support	MIPR	NSA:Ft. Meade, MD	0.100	0.100	Apr 2012	0.100	Apr 2013	-		0.100	Continuing	Continuing	
Counter-Proliferation Analysis and Planning System	MIPR	Lawrence Livermore National Labs:Livermore, CA	133.582	20.501	Nov 2011	20.757	Nov 2012	-		20.757	Continuing	Continuing	
National Systems Support to SOF	MIPR	Various:Various	13.348	0.409	Dec 2011	0.429	Dec 2012	-		0.429	Continuing	Continuing	
SOCRATES	SS/FFP	SITEC:TBD	-	1.823	Oct 2011	-		-		-	0.000	1.823	
Prior Year Funding - Completed Efforts	Various	Various:Various	42.077	-		-		-		-	0.000	42.077	
Subtotal			217.573	25.562		23.948		-		23.948			

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CAPS Support	MIPR	Lawrence Livermore National Labs:Livermore CA	5.127	0.729	Nov 2011	0.637	Nov 2012	-		0.637	Continuing	Continuing	
Subtotal			5.127	0.729		0.637		-		0.637			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Joint Threat Warning System	MIPR	JITC:Ft. Huachuca, AZ	1.837	0.988	Jun 2012	0.996	Jun 2013	-		0.996	Continuing	Continuing	
Special Operations Command Research, Analysis, and Threat Evaluation System - Independent Verification and Validation	MIPR	MITRE:Bedford, MA	0.276	0.290	Jan 2012	-		-		-	0.000	0.566	
Subtotal			2.113	1.278		0.996		-		0.996			

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
National Systems Support to SOF Program Support	C/CPAF	Jacobs:Tampa, FL	4.409	0.347	Oct 2011	0.354	Oct 2012	-		0.354	Continuing	Continuing	
Prior Year Funding - Completed Efforts	Various	Various:Various	15.683	-		-		-		-	0.000	15.683	
Subtotal			20.092	0.347		0.354		-		0.354			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			244.905	27.916		25.935		-		25.935			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>
---	--	--

FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Special Operations Command Research, Analysis, and Threat Evaluation</i>	
Special Operations Command, Research, Analysis, and Threat Evaluation	
<i>National Systems Support to SOF Participation in Space Technology Dev and Demo</i>	
National Systems Support to SOF Participation in Space Technology Dev and Demo	
<i>FY2010/2011 Single Card Solution - National Systems Support to SOF</i>	
FY 2011 Single Card Solution for CID - NSSS (Cong Add)	
<i>FY2011 OCO Title IX - Joint Treat Warning System - Unmanned Aerial Vehicle SIGINT Payload</i>	
FY 2011 OCO Title IX- JTWS Unmanned Aerial Vehicle SIGINT Payload	
<i>Counter-Proliferation Analysis and Planning System Integration</i>	
Counter-Proliferation Analysis and Planning System Integration	
<i>Joint Threat Warning System</i>	
Variant Development, Test and Eval	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160405BB: <i>Special Operations Intelligence Systems Development</i>	PROJECT S400: <i>SO Intelligence Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Special Operations Command Research, Analysis, and Threat Evaluation</i>				
Special Operations Command, Research, Analysis, and Threat Evaluation	1	2011	4	2012
<i>National Systems Support to SOF Participation in Space Technology Dev and Demo</i>				
National Systems Support to SOF Participation in Space Technology Dev and Demo	1	2011	4	2017
<i>FY2010/2011 Single Card Solution - National Systems Support to SOF</i>				
FY 2011 Single Card Solution for CID - NSSS (Cong Add)	3	2011	4	2011
<i>FY2011 OCO Title IX - Joint Treat Warning System - Unmanned Aerial Vehicle SIGINT Payload</i>				
FY 2011 OCO Title IX- JTWS Unmanned Aerial Vehicle SIGINT Payload	4	2011	4	2012
<i>Counter-Proliferation Analysis and Planning System Integration</i>				
Counter-Proliferation Analysis and Planning System Integration	1	2011	4	2013
<i>Joint Threat Warning System</i>				
Variant Development, Test and Eval	1	2011	4	2017

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	13.976	10.775	1.822	-	1.822	0.911	0.182	-	-	0.000	27.666
SF200: SO CV-22	13.976	10.775	1.822	-	1.822	0.911	0.182	-	-	0.000	27.666

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. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment was completed in FY 2007, and the Block 20 increment started in FY 2008.

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

Block 20: Design, integrate, test, and validate enhancements required to meet SOF-unique mission requirements and correct deficiencies identified in previous testing. This incremental development will provide improved capabilities to include, but not limited to, more robust performance in situational awareness, weapons, avionics, survivability, maneuverability, mission deployment and improved reliability and maintainability of the CV platform. Initial risk reduction and trade studies were initiated in FY 2006, and System Design and Development started in FY 2008. FY 2011 RDT&E activities continued on Block 20 Increment 1 and 2, including Terrain Following Logic, Terrain Following less than 50 knots, Multi Mission Advanced Tactical Terminal, and Improved Crew Interface of Integrated Broadcast Service Data. Block 20 Increment 3 efforts were also initiated in FY2011, including Helmet Mounted Display and Digital Map Upgrade. FY 2012 RDT&E activities continue and complete on Block 20 Increment 1, 2 & 3 efforts. FY 2013 RDT&E activities continue on improvements to the Enhanced Situational Awareness package providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i>	PE 1160421BB: <i>Special Operations CV-22 Development</i>
BA 7: <i>Operational Systems Development</i>	

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	14.406	10.775	-	-	-
Current President's Budget	13.976	10.775	1.822	-	1.822
Total Adjustments	-0.430	-	1.822	-	1.822
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.357	-			
• Other Adjustments	-0.073	-	1.822	-	1.822

Change Summary Explanation

Funding:

FY 2011: Decrease of -\$0.357 million is due to Small Business Innovative Research transfer and economic assumption reduction of -\$0.073 million.

FY 2012: None.

FY 2013: Net increase of \$1.822 million is due to an increase of \$1.800 million to continue Enhanced Situational Awareness development efforts and economic assumption increase of \$0.022 million.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>	PROJECT SF200: <i>SO CV-22</i>
---	---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
SF200: SO CV-22	13.976	10.775	1.822	-	1.822	0.911	0.182	-	-	0.000	27.666
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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

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

Block 20: Design, integrate, test, and validate enhancements required to meet SOF-unique mission requirements and correct deficiencies identified in previous testing. This incremental development will provide improved capabilities to include, but not limited to, robust performance in situational awareness, weapons, avionics, survivability, maneuverability, mission deployment, improved reliability and maintainability of the CV platform. Initial risk reduction and trade studies were initiated in FY 2006, and System Development and Demonstration started in FY 2008. FY 2011 RDT&E activities continue on Block 20, initiating Block 20 Increment 3 and continuing Increment 1 and 2 efforts. FY 2012 RDT&E activities continue on Block 20 Increment 1, 2 and 3 efforts. FY 2013 RDT&E activities continue on improvements to the Enhanced Situational Awareness package providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities.

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

	FY 2011	FY 2012	FY 2013
Title: CV-22 Aircraft Block 20	13.976	10.775	1.822
FY 2011 Accomplishments: Continued flight test support and design and development of Block 20.			
FY 2012 Plans: Continues flight test support and design and development of Block 20.			
FY 2013 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>	PROJECT SF200: <i>SO CV-22</i>
---	---	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Continue Enhanced Situational Awareness development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities.			
Accomplishments/Planned Programs Subtotals	13.976	10.775	1.822

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: CV-22 SOF MOD	138.350	133.002	139.147		139.147	98.927	19.843	6.491	6.607	Continuing	Continuing
• PROC2/0401318F: <i>Aircraft Procurement Air Force</i>	597.881	431.332	423.475		423.475	319.598	106.152	71.958	72.007	194.510	5,558.792
• RDT&E1/0401318F: <i>RDT&E, USAF</i>	17.648	13.223	28.027		28.027	25.438	21.223	14.656	14.484	20.399	479.852
• RDT&E/0604262N: <i>V-22 RDT&E, N BA-05</i>	42.686	84.477	54.436		54.436	40.316	54.929	51.217	52.292	111.055	9,397.300

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

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>	PROJECT SF200: <i>SO CV-22</i>
---	---	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integration, Assembly, Test and Checkout (Block 20)	SS/CPFF	Bell-Boeing:Amarillo, TX	52.687	7.995	Dec 2011	-		-		-	0.000	60.682	
Systems Engineering	SS/CPFF	Raytheon:Indianapolis, IN	5.465	-		-		-		-	0.000	5.465	
Enhanced Situational Awareness	SS/TBD	TBD:TBD	-	-		1.822	Feb 2013	-		1.822	Continuing	Continuing	
Prior Year Funding - Completed Efforts	SS/Various	Various:Various	389.472	-		-		-		-	0.000	389.472	
Subtotal			447.624	7.995		1.822		-		1.822			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Test and Evaluation (Block 20)	SS/Various	Bell-Boeing; 413FLTS:Amarillo, TX; Hurlburt Field, FL	8.506	1.795	Nov 2011	-		-		-	0.000	10.301	
System Test and Evaluation (ATA)	SS/Various	Bell-Boeing; DynCorp:Amarillo, TX; Fort Worth, TX	13.241	0.985	Dec 2011	-		-		-	0.000	14.226	
Prior Year Funding - Completed Efforts	SS/Various	Various:Various	43.584	-		-		-		-	0.000	43.584	
Subtotal			65.331	2.780		-		-		-	0.000	68.111	

	Total Prior Years Cost	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		512.955	10.775	1.822	-	1.822		

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>	PROJECT SF200: <i>SO CV-22</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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)																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160421BB: <i>Special Operations CV-22 Development</i>	PROJECT SF200: <i>SO CV-22</i>
---	---	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CV-22				
CV-22 Block 20 Development/Test	1	2011	4	2015
CV-22 Aircraft Deliveries (PROC)	1	2011	4	2016

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	3.408	4.617	10.131	-	10.131	8.285	9.219	9.399	9.527	Continuing	Continuing
S750: <i>Mission Training and Preparation Systems</i>	3.408	4.617	10.131	-	10.131	8.285	9.219	9.399	9.527	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element 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 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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	2.915	4.617	10.209	-	10.209
Current President's Budget	3.408	4.617	10.131	-	10.131
Total Adjustments	0.493	-	-0.078	-	-0.078
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.580	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-0.087	-	-0.078	-	-0.078

Change Summary Explanation

Funding:

FY 2011: Net increase of \$0.493 million due to reprogramming \$0.580 million to MTPS for automated flight performance software for non-standard aviation aircraft, and an economic assumption decrease of (-\$0.087 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>

FY 2013: Net decrease of \$0.078 million is due to a reprogramming to higher command priorities (-\$.200 million) and an economic assumption increase of \$.122 million.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>				PROJECT S750: <i>Mission Training and Preparation Systems</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S750: <i>Mission Training and Preparation Systems</i>	3.408	4.617	10.131	-	10.131	8.285	9.219	9.399	9.527	Continuing	Continuing
Quantity of RDT&E Articles											

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 & control. This project also provides the integration of SOMPE with multi-dimensional visualization systems, providing immersive mission rehearsal in minimal timeframes from the SOMPE mission plan. SOMPE is embedded in the USSOCOM Headquarters, Theater Special Operations Commands, Joint Special Operations Task Forces, Joint Special Operations Aviation Components, SOF warfighters, and SOF warfighter platforms
- **MC/AC-130J Simulator (MC/AC-130J):** Conducts integration, assembly, test and checkout of SOF-unique MC-130J and AC-130J simulator development efforts modifications along with AC-130J to include all efforts of technical and functional activities associated with the design, development, and production of mating surfaces, structures, equipment, parts, materiel, and software required to assemble equipment (hardware/software) elements into training mission equipment as a whole and not directly part of any other individual element.
- **Terrain Following/Terrain Avoidance Silent Knight Radar Simulator (TF/TA SKR):** This program will integrate Silent Knight Radar (SKR) into the MH-47G and MH-60 simulators. It will design, develop, integrate, test, and field a SOF common multi-mode radar characterized by a Low Probability of Intercept, Low Probability of Detection (LPI/LPD) capability. This program is a FY 2013 new start.

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

	FY 2011	FY 2012	FY 2013
Title: Special Operations Mission Planning Environment (SOMPE)	3.408	1.417	4.766

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>	PROJECT S750: <i>Mission Training and Preparation Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Description: .				
FY 2011 Accomplishments: Developed software applications to address SOF-unique aviation, ground and maritime mission planning requirements not addressed by other Service mission planning efforts. Developed SOF-specific mission data transfer software from mission planning systems to SOF helicopters, airplanes, and simulator/rehearsal system.				
FY 2012 Plans: Continues software development for mission data-loading software to interface with mission planning and rehearsal systems. Improves ground and maritime planning modules and capabilities.				
FY 2013 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. Continue testing of mission planning, data transfer and performance software completing development.				
Title: MC/AC-130J Simulator (MC/AC-130J SIM)		-	3.200	4.041
FY 2012 Plans: FY 2012 new start. Initiates development of SOF - unique training capabilities to support training for the new Mission Design Series, MC/AC-130J aircraft.				
FY 2013 Plans: Continues development of Special Operations Forces unique training capabilities to support training for the new Mission Design Series, MC/AC-130J aircraft.				
Title: Terrain Following/Terrain Avoidance Simulator (TF/TA SIM)		-	-	1.324
FY 2013 Plans: FY 2013 new start. Initiate development and integration of TF/TA capabilities into SOF Rotary Wing simulators.				
Accomplishments/Planned Programs Subtotals		3.408	4.617	10.131

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>	PROJECT S750: <i>Mission Training and Preparation Systems</i>
---	--	---

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>MISSION TRAINING AND PREPARATION SYSTEMS</i>	18.253	46.242	36.949		36.949	24.278	18.327	27.288	28.667	Continuing	Continuing

D. Acquisition Strategy

- SOMPE: Subprogram comprises multiple software development projects awarded annually to selected contractors. 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 & open competition acquisitions. Individual acquisition strategies are developed as the scope of software development projects are identified. and defined.

- MC/AC-130J Simulator: Subprogram comprises contract(s) that may be awarded via competition or sole source, with selected contractors under each research and development project. Funding executed via contractual action to ensure training device development conform to MC/AC-130J Special Operations Forces unique capabilities.

- TF/TA SKR: Contract may be awarded via competition or sole source with selected contractors under each modification/increment project. Individual acquisition strategies are developed as projects are identified.

E. Performance Metrics

None

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>	PROJECT S750: <i>Mission Training and Preparation Systems</i>
---	--	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning Environment Software (SOMPE)	C/TBD	Various:Various	10.299	0.712	Jan 2012	4.034	Jan 2013	-		4.034	Continuing	Continuing	
MC/AC-130J Simulator	TBD	TBD:TBD	-	3.200	Mar 2012	4.041	Mar 2013	-		4.041	0.000	7.241	
TF/TA SKR Simulator	C/TBD	PEO-STRI:Orlando, FL	-	-		0.883	Feb 2013	-		0.883	Continuing	Continuing	
Subtotal			10.299	3.912		8.958		-		8.958			

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning Environment Software (SOMPE)	MIPR	Special Operations Mission Planning Office:Fort Eustis, VA	0.971	0.251	Feb 2012	0.260	Feb 2013	-		0.260	Continuing	Continuing	
TF/TA SKR Simulator	MIPR	PEO-STRI:Orlando, FL	-	-		0.441	Feb 2013	-		0.441	Continuing	Continuing	
Subtotal			0.971	0.251		0.701		-		0.701			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Special Operations Mission Planning Environment Software (SOMPE)	C/CPFF	Wyle-CAS:Huntsville, AL	1.827	0.454	Jan 2012	0.472	Jan 2013	-		0.472	Continuing	Continuing	
Subtotal			1.827	0.454		0.472		-		0.472			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			13.097	4.617		10.131		-		10.131			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>	PROJECT S750: <i>Mission Training and Preparation Systems</i>
---	--	---

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Special Operations Mission Planning Environment (SOMPE)</i>	
Software Development	
Development Support	
Test & Evaluation	
<i>MC/AC-130J Simulator</i>	
MC/AC-130J Simulator Development	
<i>TF/TA SKR Simulator</i>	
TF/TA SKR Simulator Development	
Development Support	

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160427BB: <i>Mission Training and Preparation Systems (MTPS)</i>	PROJECT S750: <i>Mission Training and Preparation Systems</i>
---	--	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Special Operations Mission Planning Environment (SOMPE)</i>				
Software Development	1	2011	4	2017
Development Support	1	2011	4	2017
Test & Evaluation	1	2011	4	2017
<i>MC/AC-130J Simulator</i>				
MC/AC-130J Simulator Development	2	2012	4	2014
<i>TF/TA SKR Simulator</i>				
TF/TA SKR Simulator Development	2	2013	4	2017
Development Support	2	2013	4	2017

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 1160429BB: <i>AC/MC-130J</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	7.396	18.571	19.647	-	19.647	8.225	3.672	0.586	0.412	Continuing	Continuing
S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>	7.396	18.571	19.647	-	19.647	8.225	3.672	0.586	0.412	Continuing	Continuing

A. Mission Description and Budget Item Justification

NOTE: Beginning in FY 2012, Program Element 1160429BB was renamed AC/MC-130J. Former name was- SOF Tanker Recapitalization.

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	7.624	18.571	19.411	-	19.411
Current President's Budget	7.396	18.571	19.647	-	19.647
Total Adjustments	-0.228	-	0.236	-	0.236
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.189	-			
• Other Adjustments	-0.039	-	0.236	-	0.236

Change Summary Explanation

Funding:

FY 2011: Decrease of \$0.228 million due to transfer to Small Business Innovative Research (-\$0.189 million) and economic assumption reduction (-\$0.039 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160429BB: <i>AC/MC-130J</i>

FY 2012: None.

FY 2013: Increase due to economic assumption (\$0.236 million).

Schedule: None.

Technical: None

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160429BB: <i>AC/MC-130J</i>	PROJECT S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>
---	---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>	7.396	18.571	19.647	-	19.647	8.225	3.672	0.586	0.412	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

NOTE: Beginning in FY 2012, this project was renamed AC/MC-130J. Former name was SOF Tanker Recapitalization.

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, and AC-130H Spectre airframes. The 8 AC-130H Spectre 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-light navigation and in-flight refueling as a receiver. 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, aircraft performance enhancements, electron warfare and survivability systems, and other SOF mission kits. Provides Precision Strike Package aircraft infrastructure development.

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

	FY 2011	FY 2012	FY 2013
Title: AC/MC-130J	7.396	18.571	19.647
FY 2011 Accomplishments: Continued development of SOF-unique mission improvements. Initiated Precision Strike Package aircraft infrastructure development and other SOF mission kits.			
FY 2012 Plans: Continues development of SOF-unique mission improvements and continued Precision Strike Package aircraft infrastructure development and other SOF mission kits.			
FY 2013 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160429BB: <i>AC/MC-130J</i>	PROJECT S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>
---	---	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Continue SOF-unique mission improvements including, but not limited to, MC-130J Increment 3 development, integration, and test efforts. Develop and test aircraft modification designs for Precision Strike Package kit installation. Update interface designs based on results of initial design evaluation.			
Accomplishments/Planned Programs Subtotals	7.396	18.571	19.647

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>SOF TANKER RECAPITALIZATION</i>	4.968	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.00	102.638
• PROC2: <i>AC/MC-130J</i>	0.000	74.891	51.484		51.484	81.877	97.267	51.875	46.865	Continuing	Continuing
• PROC3: <i>PRECISION STRIKE PACKAGE</i>	0.000	0.000	73.013		73.013	137.944	181.218	265.073	297.957	0.000	955.205

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

E. Performance Metrics
N/A.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160429BB: <i>AC/MC-130J</i>	PROJECT S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
AC/MC-130J																												
Development/Test																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160429BB: <i>AC/MC-130J</i>	PROJECT S875: <i>AC/MC-130J (formerly SOF Tanker Recapitalization)</i>
---	---	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AC/MC-130J				
Development/Test	1	2011	4	2017

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	0.894	1.392	2.225	-	2.225	2.428	2.836	2.938	1.213	Continuing	Continuing
S700: <i>SOF Communications Equipment and Electronics Sys</i>	0.894	1.392	2.225	-	2.225	2.428	2.836	2.938	1.213	Continuing	Continuing

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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.922	1.392	0.785	-	0.785
Current President's Budget	0.894	1.392	2.225	-	2.225
Total Adjustments	-1.028	-	1.440	-	1.440
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.023	-			
• Other Adjustment	-1.005	-	1.440	-	1.440

Change Summary Explanation

Funding:

FY 2011: Decrease of \$1.028 million due to economic assumption reductions (-\$0.005 million), a congressional reduction as result of execution delays (-\$1.000 million), and a transfer to Small Business Innovative Research (-\$0.005 million).

FY 2012: None.

FY2013: Increase of \$1.440 million due to reprogramming to support development and testing of 3G/4G technology (\$1.413 million), and an economic assumption increase (\$0.027 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>				PROJECT S700: <i>SOF Communications Equipment and Electronics Sys</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S700: <i>SOF Communications Equipment and Electronics Sys</i>	0.894	1.392	2.225	-	2.225	2.428	2.836	2.938	1.213	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, SOF Communications Advanced Development is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.

United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that C4 systems continue to provide SOF with the required capabilities throughout the 21st century. USSOCOM's C4 systems comprise an integrated network of systems providing positive command and control and the timely exchange of information to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration within the Global Information Grid (GIG). The GIG is a multitude of existing and projected national assets that allows SOF elements to operate with any force combination in multiple environments.

- SOF Deployable Node (SDN) is a family of satellite communications assemblages that includes the following subprograms: heavy, medium, light, and Evolutionary Technology Insertions (ETI). The SDN provides new technology for the next generation antenna capability for all systems: heavy, medium, and light. This program consists of a family of deployable super high frequency, multi-band, satellite communications assemblages capable of supporting high-capacity, voice, data, video teleconferencing and video at all levels of classification. ETIs include Satellite on the Move version A (float and ground variants).

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: SOF Deployable Node	0.894	1.392	2.225	-	2.225
FY 2011 Accomplishments: Developed, tested, and evaluated next generation SOF Deployable Node Light manpack systems and multi-purpose baseband, and the next generation SOF Deployable Medium terminal. Tested and evaluated migration to Ka-band 1.6 meter antenna. Developed and tested next generation enhanced line of sight capability. Tested and evaluated new wideband Satellite Communications (SATCOM) systems and encryption devices.					
FY 2012 Plans:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>	PROJECT S700: <i>SOF Communications Equipment and Electronics Sys</i>
---	---	---

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Continues to develop, test, and evaluate next generation light manpack systems and multi-purpose baseband, and the next generation medium terminal. <i>FY 2013 Base Plans:</i> Continue to develop, test, and evaluate next generation light manpack systems and multi-purpose baseband, and the next generation medium terminal. Also extend current SOF assured communications services to the tactical operator leveraging hand-held 3G/4G technology.					
Accomplishments/Planned Programs Subtotals	0.894	1.392	2.225	-	2.225

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC3: <i>COMMUNICATIONS EQUIPMENT AND ELECTRONICS</i>	77.260	166.814	99.838	0.151	99.989	115.999	106.603	117.792	107.725	Continuing	Continuing

D. Acquisition Strategy

- SOF Deployable Node is a fielded program being upgraded for next generation evolutionary technology insertions for all systems: heavy, medium, and light variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.

E. Performance Metrics
N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>	PROJECT S700: <i>SOF Communications Equipment and Electronics Sys</i>
---	---	---

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<i>SOF Deployable Node Antenna</i>																												
FY12 Evolutionary Technology Insertions																												
FY13 Evolutionary Technology Insertions																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>	PROJECT S700: <i>SOF Communications Equipment and Electronics Sys</i>
---	---	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Deployable Node Antenna</i>				
FY12 Evolutionary Technology Insertions	1	2012	4	2012
FY13 Evolutionary Technology Insertions	1	2013	4	2013

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160476BB: <i>SOF Tactical Radio Systems</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	2.277	-	3.036	-	3.036	3.089	3.145	3.199	3.254	Continuing	Continuing
<i>S725: SOF Tactical Radio Systems</i>	2.277	-	3.036	-	3.036	3.089	3.145	3.199	3.254	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element is for development of all Special Operations Forces (SOF) tactical radio programs. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility. United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. SOF Tactical Radios provide the critical Command, Control, and Communication (C3) link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed Command and Control (C2) communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	2.347	-	-	-	-
Current President's Budget	2.277	-	3.036	-	3.036
Total Adjustments	-0.070	-	3.036	-	3.036
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.058	-			
• Other Adjustment	-0.012	-	3.036	-	3.036

Change Summary Explanation

Funding:

FY 2011: Decrease of \$.070 million due to economic assumption reductions (-\$.012 million) and a transfer to Small Business Innovative Research (-\$.058 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160476BB: <i>SOF Tactical Radio Systems</i>

FY 2013: Increase of \$3.036 million due to reprogramming to develop and test DoD on-orbit capacity in order to enhance C2 capabilities (\$3.000 million), and an economic assumption increase (\$0.036 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160476BB: <i>SOF Tactical Radio Systems</i>	PROJECT S725: <i>SOF Tactical Radio Systems</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S725: <i>SOF Tactical Radio Systems</i>	2.277	-	3.036	-	3.036	3.089	3.145	3.199	3.254	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project is for development of all 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 war-fighting capability without degrading their mobility. USSOCOM has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. Tactical Radios provide the critical C3 link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed C2 communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

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

	FY 2011	FY 2012	FY 2013
Title: SOF Tactical Communications (STC)	2.277	-	3.036
FY 2011 Accomplishments: Continued developing and testing Low Probability of Intercept/Low Probability of Detection (LPI/LPD) transceiver board upgrades and waveforms for SOF tactical radio application.			
FY 2013 Plans: Develop and test DoD on-orbit capacity in order to enhance C2 capabilities. The STC program incorporates the Special Mission Radio System, Multi-Band Inter/Intra Team Radio, and the Multi-Band, Multi-Mission Radio.			
Accomplishments/Planned Programs Subtotals	2.277	-	3.036

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>Tactical Radio Systems</i>	59.860	151.353	75.132	0.000	75.132	63.922	52.859	55.205	57.670	Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160476BB: <i>SOF Tactical Radio Systems</i>	PROJECT S725: <i>SOF Tactical Radio Systems</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

SOF Tactical Radios	
SOF Tactical Communications (STC) Radio Development	██████████

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160476BB: <i>SOF Tactical Radio Systems</i>	PROJECT S725: <i>SOF Tactical Radio Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Tactical Radios</i>				
SOF Tactical Communications (STC) Radio Development	2	2013	4	2013

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	0.465	2.610	1.511	-	1.511	-	-	0.005	0.005	Continuing	Continuing
S375: <i>SOF Weapons Systems</i>	0.465	2.610	1.511	-	1.511	-	-	0.005	0.005	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides for development, testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of Special Operations Forces (SOF). This specialized equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	0.479	2.610	3.493	-	3.493
Current President's Budget	0.465	2.610	1.511	-	1.511
Total Adjustments	-0.014	-	-1.982	-	-1.982
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.002	-			
• SBIR/STTR Transfer	-0.012	-			
• Reprogrammings	-	-	-1.982	-	-1.982

Change Summary Explanation

Funding:

FY 2011: Decrease of -\$0.014 million is due to reprogramming to higher command priorities of (-\$0.002 million) and Small Business Innovative Research transfer (-\$0.012 million).

FY 2012: No change.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160477BB: <i>SOF Weapons Systems</i>

FY 2013: Net decrease of -\$1.982 million due to a decrease of (-\$2.000 million) realigned to higher command priorities and an economic assumption increase (\$0.018 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>	PROJECT S375: <i>SOF Weapons Systems</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S375: <i>SOF Weapons Systems</i>	0.465	2.610	1.511	-	1.511	-	-	0.005	0.005	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project provides for development and testing of specialized, lightweight individual, assault, crew-served weapons, and fire control/surveillance devices to meet the unique requirements of Special Operations forces (SOF). SOF often deploys as small, independent, quick reaction, foot-mobile teams independent of primary logistics support. Existing weapons and combat equipment are frequently unsuited to these conditions. Sub-projects include:

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

- Weapons Accessories (WPNAC). This program effort enhances all SOF weapons, both individual and crew served, by leveraging the latest technological advances in optional accessories (up to 30 different functions/capabilities) such as day scopes, clip-on night scopes, active aiming laser module, visible lights, grenade launchers, suppressors, hand grips, and close quarters battle sights. Miniature Day-Night Sight (MDNS) for Crew-served Weapons enhances all SOF weapons, by leveraging existing image intensification and thermal technology to improve combat effectiveness for all crew served weapon systems. Development efforts include test and evaluation of the Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) hardening to withstand the live-fire shock profiles for the Combat Assault Rifle (CAR), Clip-on Night Vision Devices (CNVD), 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. This program was increased by FY 2001, FY 2002, FY 2004, FY 2006, FY 2007 and FY2010 Congressional Adds.

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

	FY 2011	FY 2012	FY 2013
Title: FSWS	0.222	-	-
FY 2011 Accomplishments: FY11 Purchased PSR labor support and ammunition to conduct operational testing and user assessments.			
Title: WPNAC	0.243	2.610	1.511
FY 2011 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>	PROJECT S375: <i>SOF Weapons Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Purchased labor support for down select, conducted market research, purchased test articles, and labor support for operational testing and field user assessments for the CNVD P3I and FMBS program. FY 2012 Plans: Conducts market research, purchase labor support for down select, test articles, operational and developmental testing and field user assessment that support the Sniper CNVD and FMBS programs. FY 2013 Plans: Continue development of Sniper CNVD and FMBS programs. Conduct market research, continue down select support, test articles, operational and developmental testing, and user assessment that support the Sniper CNVD and FMBS programs.			
Accomplishments/Planned Programs Subtotals	0.465	2.610	1.511

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC: <i>SMALL ARMS AND WEAPONS</i>	31.454	17.684	27.108		27.108	9.848	8.119	9.165	8.680	Continuing	Continuing

D. Acquisition Strategy

- FSWS. Develops, tests, and evaluates highly accurate, long-range weapon systems to enable the SOF operator to engage the enemy and materiel targets utilizing pre-planned product improvement and incremental development based on technological advances.
- WPNAC. Develops, tests, and evaluates accessories to optimize the effectiveness of all SOF weapons in order to increase their operational effectiveness through improved target recognition, acquisition and hit capability during day and night from close quarters to maximum effective range of each weapon. Develops long range CNVD 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
N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>	PROJECT S375: <i>SOF Weapons Systems</i>
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Family of Muzzle Brakes and Suppressors (FMBS)	C/FFP	NSWC-Crane:Crane, IN	0.703	0.812	Jul 2012	0.818	Mar 2013	-		0.818	Continuing	Continuing	
Subtotal			0.703	0.812		0.818		-		0.818			

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FMBS	C/FFP	NSWC-Crane:Crane, IN	0.108	0.723	Dec 2011	0.493	Dec 2012	-		0.493	Continuing	Continuing	
Subtotal			0.108	0.723		0.493		-		0.493			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FMBS	C/FFP	NSWC-Crane:Crane, IN	0.100	-		0.200	Dec 2012	-		0.200	Continuing	Continuing	
CNVD	C/FFP	NSWC-Crane:Crane, IN	-	1.075	Mar 2013	-		-		-	Continuing	Continuing	
Subtotal			0.100	1.075		0.200		-		0.200			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.911	2.610		1.511		-		1.511			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>	PROJECT S375: <i>SOF Weapons Systems</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<i>Clip-on Night Vission Device Development</i>																												
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											■																	
Developmental Testing/Operational Testing												■	■	■														
Milestone C FRP (Full Rate Production) Decisions													■															
<i>Family of Muzzle Break Suppressors Development</i>																												
Lightweight Machine Gun (LMG) Suppressor Solicitation				■	■	■																						
LMG Research and Development Contract Award						■																						
LMG Modeling							■																					
LMG Conduct Initial Prototyping								■																				
LMG MS B Decision									■																			
LMG Conduct Fellow-on Prototyping										■																		
LMG - MS C LRIP Decision												■																
Award LMG Suppressor Contract													■															

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160477BB: <i>SOF Weapons Systems</i>	PROJECT S375: <i>SOF Weapons Systems</i>
---	--	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Clip-on Night Vision Device Development</i>				
Develop/release solicitation	1	2012	1	2012
Source Selection	2	2012	2	2012
Contract Award	3	2012	3	2012
Receive Prototype Systems	4	2012	4	2012
Developmental Testing/User Assessment of Prototypes	2	2013	4	2013
Prototype Down-Select Decision	2	2013	2	2013
Delivery of Low Rate Initial Production LRIP Systems	4	2013	4	2013
Developmental Testing/Operational Testing	1	2014	2	2014
Milestone C FRP (Full Rate Production) Decisions	2	2014	2	2014
<i>Family of Muzzle Break Suppressors Development</i>				
Lightweight Machine Gun (LMG) Suppressor Solicitation	1	2012	2	2012
LMG Research and Development Contract Award	4	2012	4	2012
LMG Modeling	1	2013	1	2013
LMG Conduct Initial Prototyping	2	2013	2	2013
LMG MS B Decision	2	2013	2	2013
LMG Conduct Follow-on Prototyping	3	2013	3	2013
LMG - MS C LRIP Decision	4	2013	4	2013
Award LMG Suppressor Contract	4	2013	4	2013

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	0.574	2.971	4.263	-	4.263	3.029	3.363	1.865	1.898	Continuing	Continuing
S385: <i>Soldier Protection and Survival Systems</i>	0.470	2.100	3.383	-	3.383	2.203	2.616	1.242	1.264	Continuing	Continuing
S385A: <i>Theater Body Armor and Associated Equipment</i>	0.104	0.871	0.880	-	0.880	0.826	0.747	0.623	0.634	Continuing	Continuing

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

B. Program Change Summary (\$ in Millions)

	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	0.593	2.971	3.191	-	3.191
Current President's Budget	0.574	2.971	4.263	-	4.263
Total Adjustments	-0.019	-	1.072	-	1.072
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.016	-			
• Congressional General Reductions	-0.003	-	-	-	-
• Reprogrammings	-	-	1.072	-	1.072

Change Summary Explanation

Funding:

FY 2011: Decrease of (-\$0.019 million) is due to an adjustment for the Small Business Innovative Research account (-\$0.016 million) and an economic assumption adjustment (-\$0.003 million).

FY 2012: No change.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160478BB: <i>Soldier Protection and Survival Systems</i>

FY 2013: Net increase of \$1.072 million is due to a reprogramming of \$1.021 million to support Counter-Improvised Explosive Device efforts and an economic assumption increase of \$0.051 million.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S385: <i>Soldier Protection and Survival Systems</i>	0.470	2.100	3.383	-	3.383	2.203	2.616	1.242	1.264	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

- This project provides specialized equipment to meet the unique soldier protection and survival requirements of SOF to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Special Tactics Operators; and Marine Forces Special Operations Command. Specialized equipment improves survivability protection from the environment and load bearing equipment to improve the mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.
- SOF Personal Equipment Advanced Requirements (SPEAR) program provides for the research, development, testing and evaluation of a variety of individual and survival equipment to include: ballistic and environmental protective systems, combat uniforms, load carriage systems, communications headsets, and visual augmentation system (VAS) mounts. NOTE: In compliance with the National Defense Authorization Act of 2010, resources to support ballistic protection efforts were moved from SPEAR to a separate project (S385A) beginning in FY 2012.
- Tactical Combat Casualty Care (TCCC) Casualty Evacuation (CASEVAC) Set provides the capability for the extraction, movement, sustainment and transportation of wounded. The set contains a variety of medical items and equipment approved by the Food and Drug Administration to include intraosseous infusion devices, patient monitoring and assessment devices, emergency airway kits, and devices that support patient management and en-route care capabilities for the far forward treatment of SOF casualties in remote and austere environments. Research, development, testing, and evaluation efforts will be aimed at maintaining the CASEVAC Set capabilities by performing equipment upgrades and additions as obsolescence surfaces and new and enhanced equipment becomes available. Product improvement and replacement will require: additional functional testing, air worthiness testing as applicable, miniaturization and /or hardening, and packaging enhancements.
- Counter-Improvised Explosive Device (C-IED) program provides SOF with the ability to counter current and future improvised explosive devices threats used by terrorist networks. NOTE: The C-IED efforts were conducted in the program element 1160408BB. The resources for these efforts were split beginning in FY2013 to support the SOF theater force requirements.

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

	FY 2011	FY 2012	FY 2013
Title: SOF Personal Equipment Advanced Requirements (SPEAR)	-	2.100	2.350
FY 2012 Plans: Continues flame/heat characterization testing and increased thermal protective capabilities of the protective combat uniform and validation of pre-planned product improvements (P3I). Continues development of lightweight/high strength and water repellent materials for personal and load carriage equipment. Conducts investigating perceptual encapsulation and load effects on survivability and marksmanship. Investigates and initiates efforts to develop secure wireless link to Modular Integrated			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
<p>Communications Helmet individual communications headsets to enhance operator mobility. Identifies lightweight power sources for extremity protection efforts.</p> <p>FY 2013 Plans: Provide continuation of profile refinement to support signature management, reactive fiber testing and material research for uniforms. Develops a solicitation for an advanced maritime communications system. Develop safety belt and lanyard testing, and testing of nano-coatings for water repellency for individual equipment. Continue on-going prototype testing and research on load effects for survivability and marksmanship.</p>			
<p>Title: Tactical Combat Casualty Care (TCCC)</p> <p>FY 2011 Accomplishments: Provided test and evaluation on production demonstration models and airworthiness testing of electronic components in the TCCC CASEVAC Set.</p>	0.470	-	-
<p>Title: Counter-Improvised Explosive Device (C-IED)</p> <p>FY 2013 Plans: FY 2013 provides for NAG C-IED test support to include program management, market surveys, test article acquisition, test and evaluation, systems engineering, and internal contracting and finance for range activities.</p>	-	-	1.033
Accomplishments/Planned Programs Subtotals	0.470	2.100	3.383

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0607SPSS: <i>Soldier Protection and Survival Systems</i>	5.630	37.862	14.961		14.961	15.284	12.636	12.850	13.081	Continuing	Continuing

D. Acquisition Strategy

- SPEAR - SPEAR primarily takes advantage of modified commercial off the shelf (COTS) or non-developmental items (NDI) through open competition. Majority of these SPEAR purchases are made with O&M.
- TCCC - The TCCC CASEVAC takes advantage of COTS equipment and/or NDI. A Fixed Firm Price Indefinite Delivery/Indefinite Quantity contract was awarded in the 4th quarter of FY 2011. Beginning in FY 2012, procurement funding increased to support the purchase of the TCCC CASEVAC sets.
- C-IED - Beginning in FY 2012, procurement funding increased to support the purchase of next generation electronic countermeasures force protection C-IED systems. In FY 2013, procurement funding begins acquiring force protection C-IED system jammers.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>

E. Performance Metrics

N/A.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SPEAR MICH Land/Maritime Communication System	Various	PM-SSES:Natick, MA	-	0.350	Mar 2012	0.109	Mar 2013	-		0.109	Continuing	Continuing	
Protective Combat Uniform (PCU)	Various	PM-SSES:Natick, MA	0.361	0.500	Feb 2012	0.500	Feb 2013	-		0.500	Continuing	Continuing	
Load Carriage System (LCS) and Backpacks	Various	PM-SSES:Natick, MA	0.050	-		0.200	Mar 2013	-		0.200	Continuing	Continuing	
Modular Glove System (MGS)	Various	PM-SSES:Natick, MA	-	-		0.100	Mar 2013	-		0.100	Continuing	Continuing	
Subtotal			0.411	0.850		0.909		-		0.909			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PCU Fire Retardant Test/P3I	Various	PM-SSES:Natick, MA	0.387	0.453	Feb 2012	0.150	Feb 2013	-		0.150	Continuing	Continuing	
Signature Management Profile Characterization	Various	PM-SSES:Natick, MA	-	0.300	Mar 2012	0.391	Mar 2013	-		0.391	Continuing	Continuing	
LCS/BAV/Backpack Material and Prototype Testing	Various	PM-SSES:Natick, MA	-	0.187	Feb 2012	0.100	Mar 2013	-		0.100	Continuing	Continuing	
MGS Testing	Various	PM-SSES:Natick, MA	-	-		0.100	Mar 2013	-		0.100	Continuing	Continuing	
Maritime Comms Testing	Various	PM-SSES:Natick, MA	-	0.310	Jan 2012	0.700	Jan 2013	-		0.700	Continuing	Continuing	
National Assessment Group C-IED Test Support	Various	PM-SSES:Natick, MA	-	-		1.033	Mar 2013	-		1.033	Continuing	Continuing	
Prior Year Funding	MIPR	PM-SSES:Natick, MA	1.080	-		-		-		-	Continuing	Continuing	
Subtotal			1.467	1.250		2.474		-		2.474			

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		1.878	2.100		3.383	-		3.383			

Remarks
N/A.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<i>SPEAR Protective Combat Uniform (PCU)</i>																												
Block II Test Contract	█																											
Block II Fire Retardant (FR) Prototyping	█																											
Phase I FR Baseline Test	█																											
Reactive Fiber Testing					█																							
Level 3A Development Exterior Jacket Low Loft	█																											
Phase II FR Block II Testing			█																									
PCU P3I	█																											
Signature Management Profile Characterization					█																							
Materials Research					█																							
Modular Glove System									█																			
Market Research, Lightweight Power for Active Heating					█																							
<i>SPEAR MICH Comms</i>																												
Market Research/Interoperability Assessment					█																							
Maritime Comms Solicitation/Solicitation Develop					█																							
<i>SPEAR LCS, Body Armor Vest (BAV and Backpacks)</i>																												
LCS/BAV/Backpack Material and Prototyping Testing					█																							
Safety Belt and Lanyard Test Methods					█																							
Testing Water Repellant Nanocoatings					█																							
Load Effects on Survivability					█																							

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Tactical Combat Casualty Care Equipment																												
Prototype Testing and Airworthiness Certification																												
C-IED																												
NAG C-IED Test Support																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SPEAR Protective Combat Uniform (PCU)</i>				
Block II Test Contract	1	2011	2	2011
Block II Fire Retardant (FR) Prototyping	1	2011	4	2011
Phase I FR Baseline Test	1	2011	2	2011
Reactive Fiber Testing	1	2012	4	2013
Level 3A Development Exterior Jacket Low Loft	1	2011	2	2011
Phase II FR Block II Testing	3	2011	4	2011
PCU P3I	1	2011	4	2017
Signature Management Profile Characterization	1	2012	4	2017
Materials Research	1	2012	4	2012
Modular Glove System	2	2013	4	2017
Market Research, Lightweight Power for Active Heating	1	2012	4	2012
<i>SPEAR MICH Comms</i>				
Market Research/Interoperability Assessment	1	2012	4	2017
Maritime Comms Solicitation/Solicitation Develop	2	2012	4	2013
<i>SPEAR LCS, Body Armor Vest (BAV and Backpacks)</i>				
LCS/BAV/Backpack Material and Prototyping Testing	2	2012	4	2017
Safety Belt and Lanyard Test Methods	2	2012	4	2012
Testing Water Repellant Nanocoatings	2	2012	4	2013
Load Effects on Survivability	2	2012	4	2013
<i>Tactical Combat Casualty Care Equipment</i>				
Prototype Testing and Airworthiness Certification	2	2011	4	2012

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385: <i>Soldier Protection and Survival Systems</i>
---	--	--

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C-IED				
NAG C-IED Test Support	2	2013	4	2017

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>
---	--	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S385A: <i>Theater Body Armor and Associated Equipment</i>	0.104	0.871	0.880	-	0.880	0.826	0.747	0.623	0.634	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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

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

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

	FY 2011	FY 2012	FY 2013
Title: SOF Personal Equipment Advanced Requirements (SPEAR)	0.104	0.871	0.880
FY 2011 Accomplishments: Continued true threat round and high velocity testing and ballistic validation of current armor systems and technical insertions into the USSOCOM SPEAR body armor systems and technologies. Continued non-destructive inspection (N-DI) effort to produce robust capability for inspection of ballistic plates and initiated development of advanced soft armor products.			
FY 2012 Plans: Conducts high temperature ammunition testing and threat validation to assess effectiveness of fielded armor systems. Continues research on advanced N-DI of body armor systems and material/density exploitation for quantitative ballistic data in support of a next generation armor plate. Conducts material testing and prototype evaluation of advanced body armor vest designs; baseline testing and development of specifications for a next generation helmet. Conducts market survey and evaluation of transparent ballistic lens products in preparation for development of a future Special Operations Eye Protection capability.			
FY 2013 Plans: Continue foreign ammunition testing and threat validation to assess armor effectiveness. Continue the helmet design and blast studies. Conduct body armor material research and testing along with the soldier load analysis and research on behind armor effects. Conduct evaluation of transparent armor products will include ballistic and optical testing of transition lenses. Initiate			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>
---	--	---

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
work on anti-fogging technologies and continue development of low visibility eyewear to support future Special Operations Eye Protection capabilities.			
Accomplishments/Planned Programs Subtotals	0.104	0.871	0.880

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

N/A

D. Acquisition Strategy

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

E. Performance Metrics

N/A.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>
---	--	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor	Various	PM-SSES:Natick, MA	0.104	-	Feb 2012	0.300	Feb 2013	-		0.300	Continuing	Continuing	
Laser Eye Protection	Various	PM-SSES:Natick, MA	-	-	May 2012	0.050	May 2013	-		0.050	Continuing	Continuing	
Subtotal			0.104	-		0.350		-		0.350			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Body Armor Testing	Various	PM-SSES:Natick, MA	-	0.568	Mar 2012	0.380	Mar 2013	-		0.380	Continuing	Continuing	
Lightweight Helmet Testing	Various	PM-SSES:Natick, MA	-	0.239	Mar 2012	0.100	Mar 2013	-		0.100	Continuing	Continuing	
Transparent Armor Testing	Various	PM-SSES:Natick, MA	-	0.064	Jan 2012	0.050	Jan 2013	-		0.050	Continuing	Continuing	
Subtotal			-	0.871		0.530		-		0.530			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.104	0.871		0.880		-		0.880			

Remarks

N/A.

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command			DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160478BB: <i>Soldier Protection and Survival Systems</i>	PROJECT S385A: <i>Theater Body Armor and Associated Equipment</i>		

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Body Armor (BA)				
Market Survey (Pre-Solicitation)	3	2011	3	2013
Verification Testing (Pre-Validation)	1	2012	1	2012
Soldier Load Analysis Research	1	2012	4	2013
BA Materials/Testing	1	2012	4	2014
SPEAR Eye Protection				
Market Survey	1	2012	4	2012
Ballistic & Optical Development of Transition Lenses	1	2012	4	2013
Anti-Fogging Development	1	2013	4	2015
Low Visibility Eyewear	1	2012	4	2013
SPEAR Ballistic/Life Support				
Threat Validation	1	2012	4	2017
Foreign Ammunition Exploitation Testing	1	2013	4	2017
Non-Destructive Inspection Development & Testing	1	2012	4	2012
Helmet Design Research	1	2012	4	2013
Next Generation Helmet	1	2015	4	2016
Next Generation Lightweight Materials	1	2015	4	2017
Behind Armor Effects	1	2012	4	2014
Slow Impact Research	1	2012	4	2012
Material Development/Analysis	1	2015	4	2017
Blast Research	1	2012	4	2014

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	3.000	4.448	-	4.448	-	-	-	-	Continuing	Continuing
S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	-	3.000	4.448	-	4.448	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides for development, testing, and integration of specialized visual augmentation, laser and sensor systems equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to enemy threats to ensure mission success.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	3.000	2.395	-	2.395
Current President's Budget	-	3.000	4.448	-	4.448
Total Adjustments	-	-	2.053	-	2.053
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	2.053	-	2.053

Change Summary Explanation

Funding:

FY 2011: None.

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>

FY 2013: Net increase of \$2.053 million is due to a reprogramming (\$2.000 million) to support Visual Augmentation Systems Binocular for continued development and integration of operator-borne visual augmentation devices to include engineering support and to purchase prototypes and an economic assumption increase of \$0.053 million.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	PROJECT S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	-	3.000	4.448	-	4.448	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

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

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: VAS	-	3.000	4.448	-	4.448
FY 2012 Plans: Initiates the development of the next generation of operator-borne visual augmentation devices to improve situational awareness, sharing of data/images and target acquisition.					
FY 2013 Base Plans: Continue the development of the next generation of operator-borne visual augmentation devices to improve situational awareness, sharing of data/images and target acquisition. The primary capability shortfalls addressed					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	PROJECT S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>
---	---	---

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

include the following under all lighting conditions: (1) Ability to detect, classify, and engage targets out to 800 m without the use of an infra-red illuminator; (2) Ability to determine wind speed at ranges out to 500 m or greater; and (3) Ability to observe bullet trace at ranges of 800 m or greater.

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Accomplishments/Planned Programs Subtotals	-	3.000	4.448	-	4.448

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: VISUAL AUGMENTATION, LASERS AND SENSOR SYSTEMS	43.090	19.289	33.920	0.108	34.028	18.532	18.610	14.589	11.213	Continuing	Continuing

D. Acquisition Strategy

• VAS utilizes FY 2012 and FY 2013 RDT&E funds to develop prototypes for the SOF next generation soldier-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 in FY 2014 to support SOF procurement of the production version of the next generation soldier-borne visual augmentation devices.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	PROJECT S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>
---	---	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
VAS	C/FFP	Joint Special Operations Program Office:Crane, IN	1.015	2.800	Jun 2012	3.453	Jun 2013	-		3.453	Continuing	Continuing	
Prior Year Funding	C/CPFF	PM Sensors and Lasers:Ft Belvoir, VA	7.844	-		-		-		-	Continuing	Continuing	
Subtotal			8.859	2.800		3.453		-		3.453			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
VAS	C/CPFF	Joint Special Operations Program Office:Crane, IN	-	0.200	Jan 2012	0.995	Jan 2013	-		0.995	Continuing	Continuing	
Prior Year Funding	C/CPFF	HQ USSOCOM:Tampa, FL	2.390	-		-		-		-	Continuing	Continuing	
Subtotal			2.390	0.200		0.995		-		0.995			

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			11.249	3.000		4.448		-		4.448			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	PROJECT S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>
---	---	---

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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 Soldier-borne Night Vision Devices																												
Integration and Testing of the Next Generation Soldier-borne Night Vision Devices																												
Development of the Next Generation Night Vision Devices for Target Engagement Systems																												
Integration and Testing of the Next Generation Night Vision Devices for Target Engagement Systems																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160479BB: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>	PROJECT S395: <i>SOF Visual Augmentation, Lasers and Sensor Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Visual Augmentation System Binocular/Monocular</i>				
Development of the Next Generation Soldier-borne Night Vision Devices	1	2012	4	2013
Integration and Testing of the Next Generation Soldier-borne Night Vision Devices	3	2013	2	2014
Development of the Next Generation Night Vision Devices for Target Engagement Systems	2	2013	2	2014
Integration and Testing of the Next Generation Night Vision Devices for Target Engagement Systems	2	2014	2	2015

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 1160480BB: <i>SOF Tactical Vehicles</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	0.964	3.522	11.325	-	11.325	8.110	2.329	2.368	2.408	Continuing	Continuing
S910: <i>SOF Tactical Vehicles</i>	0.964	3.522	11.325	-	11.325	8.110	2.329	2.368	2.408	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.994	3.522	3.819	-	3.819
Current President's Budget	0.964	3.522	11.325	-	11.325
Total Adjustments	-1.030	-	7.506	-	7.506
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-1.000	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.030	-			
• Other Adjustments	-	-	7.506	-	7.506

Change Summary Explanation

Funding:

FY 2011: Net decrease of -\$1.030 million due to Congressional reduction (-\$1.000 million) and Small Business Innovative Research transfer of (-\$0.030 million).

FY 2012: No change.

FY 2013: Increase of \$7.370 million supports Medium Mobility Vehicle (Ground Mobility Vehicle 1.1) system development, engineering and test (\$4.000 million), Mine Resistant Ambush Protected (MRAP) vehicle SOF peculiar integration kit development (\$3.370 million) and an economic assumption increase of \$0.136 million.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160480BB: <i>SOF Tactical Vehicles</i>

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160480BB: <i>SOF Tactical Vehicles</i>	PROJECT S910: <i>SOF Tactical Vehicles</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S910: <i>SOF Tactical Vehicles</i>	0.964	3.522	11.325	-	11.325	8.110	2.329	2.368	2.408	Continuing	Continuing
Quantity of RDT&E Articles											

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. Sub-projects include:

- 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. Develop, integrate and test C4ISR systems in order to reduce space and power claim on vehicles. 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. Efforts include, but are not limited to, the following:
 - Medium Mobility Vehicle Version 1.1. This effort provides for a projected multi-vendor award to acquire product samples for a medium vehicle variant capable of meeting specific requirements of internal aircraft transport on the C/MH47. The effort also provides for engineering costs related to performance, endurance, safety testing, integration and logistical analysis of product samples.
 - Mine Resistant Ambush Protected (MRAP) Vehicle Kits. This effort provides design, prototyping, testing and installation manual development of SOF peculiar integration kits for multiple models of Service-common MRAPs employed by SOF. Kits will enable SOF unique C4ISR installation and Common Remote Operator Weapons Station integration to Service-common MRAPs.

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Family of Special Operations Vehicle	0.964	3.522	11.325	-	11.325
FY 2011 Accomplishments: Continued development of ECPs that implement spiral upgrades and improve the design of the medium mobility vehicles.					
FY 2012 Plans:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160480BB: <i>SOF Tactical Vehicles</i>	PROJECT S910: <i>SOF Tactical Vehicles</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Continues development of ECPs that implement spiral upgrades and improve the design of the medium mobility vehicles, to include development, integration and testing of a Single Joint Platform C4ISR solution. <i>FY 2013 Base Plans:</i> Continue development of ECPs that implement spiral upgrades and improve the design of the medium mobility vehicles, efforts include development, prototyping and testing of version 1.1 of medium mobility vehicle and SOF-Peculiar Integration Kits for service variant MRAPs.					
Accomplishments/Planned Programs Subtotals	0.964	3.522	11.325	-	11.325

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC: <i>TACTICAL VEHICLES</i>	109.355	53.733	37.421	1.843	39.264	71.537	117.128	113.892	114.588	Continuing	Continuing

D. Acquisition Strategy
 • Vehicle improvements integrate emerging technology or commercial-off-the-shelf/non-developmental items. Materiel solutions will be procured via existing contracts or through a competitive procurement.

E. Performance Metrics
 N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160480BB: <i>SOF Tactical Vehicles</i>	PROJECT S910: <i>SOF Tactical Vehicles</i>
---	--	--

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Change Proposal Developmental Test Support	MIPR	Aberdeen Test Center:Aberdeen, MD	0.508	0.375	Dec 2011	0.300	Dec 2012	-		0.300	Continuing	Continuing	
C4I Engineering Change Proposal Developmental Test Support	MIPR	Space and Naval Warfare Systems Command:Charleston, SC	0.952	0.850	Feb 2012	1.350	Feb 2013	-		1.350	Continuing	Continuing	
Medium Mobility Vehicle Engineering Change Proposal Development	MIPR	Naval Air Systems Command:Patuxent River, MD	1.046	0.600	Mar 2012	0.900	Apr 2013	-		0.900	Continuing	Continuing	
Medium Mobility Vehicle Engineering Change Proposal Development	WR	GSE Engineering:Houghton, MI	1.633	1.697	Jan 2012	1.269	Jan 2013	-		1.269	Continuing	Continuing	
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development	MIPR	TBD:TBD	-	-		3.370	Jan 2013	-		3.370	1.750	5.120	
Subtotal			4.139	3.522		7.189		-		7.189			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	C/FFP	TBD:TBD	-	-		4.136	May 2013	-		4.136	4.000	8.136	
Subtotal			-	-		4.136		-		4.136	4.000	8.136	

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			4.139	3.522		11.325		-		11.325			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160480BB: <i>SOF Tactical Vehicles</i>	PROJECT S910: <i>SOF Tactical Vehicles</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Engineering Change Proposal Developmental Test Support																												
Engineering Change Proposal Developmental Test Support	[REDACTED]																											
C4ISR Engineering Change Proposal Developmental Test Support																												
C4ISR Engineering Change Proposal Developmental Test Support	[REDACTED]																											
Medium Mobility Vehicle Engineering Change Proposal Development																												
Medium Mobility Vehicle Engineering Change Proposal Development	[REDACTED]																											
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																												
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test																												
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development																												
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160480BB: <i>SOF Tactical Vehicles</i>	PROJECT S910: <i>SOF Tactical Vehicles</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Engineering Change Proposal Developmental Test Support</i>				
Engineering Change Proposal Developmental Test Support	1	2011	4	2017
<i>C4ISR Engineering Change Proposal Developmental Test Support</i>				
C4ISR Engineering Change Proposal Developmental Test Support	1	2011	4	2017
<i>Medium Mobility Vehicle Engineering Change Proposal Development</i>				
Medium Mobility Vehicle Engineering Change Proposal Development	1	2011	4	2017
<i>Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test</i>				
Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test	2	2013	2	2014
<i>Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development</i>				
Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development	2	2013	4	2014

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 1160481BB: <i>SOF Munitions</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	-	1.500	1.515	-	1.515	-	-	-	-	0.000	3.015
S800: <i>SO Munitions Advanced Development</i>	-	1.500	1.515	-	1.515	-	-	-	-	0.000	3.015

Note

There are prior year funds being obligated against the Insensitive Munitions (IM) requirement. However, according to the "New Start" criteria, the FY 2012 RDT&E request constitutes a New Start since there is more than one skip year in the appropriation. Prior to FY 2010, the Insensitive Munitions RDT&E was executed under Program Element 1160404BB.

A. Mission Description and Budget Item Justification

This program element provides for the advanced engineering operational system development and qualification efforts related to Special Operations Forces peculiar munitions and equipment. Funding supports development of 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.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	1.500	1.497	-	1.497
Current President's Budget	-	1.500	1.515	-	1.515
Total Adjustments	-	-	0.018	-	0.018
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	0.018	-	0.018

Change Summary Explanation

Funding:

FY 2011: No change.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160481BB: <i>SOF Munitions</i>

FY 2012: No change.

FY 2013: Increase is due to an economic assumption increase (\$0.018 million).

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160481BB: <i>SOF Munitions</i>	PROJECT S800: <i>SO Munitions Advanced Development</i>
---	--	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S800: <i>SO Munitions Advanced Development</i>	-	1.500	1.515	-	1.515	-	-	-	-	0.000	3.015
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

- This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment
- Non-Standard Materiel (NSM). Provides for Insensitive Munitions (IM) technology development and evaluation that allows SOF munitions to pass testing which includes bullet impact, fragment impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations IM Testing Plan.

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

	FY 2011	FY 2012	FY 2013
Title: NSM	-	1.500	1.515
FY 2012 Plans: Conducts proof of principle and IM testing on various munitions then full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).			
FY 2013 Plans: Conduct proof of principle and IM testing on various munitions then full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).			
Accomplishments/Planned Programs Subtotals	-	1.500	1.515

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

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PROC1: <i>ORDNANCE ACQUISITION</i>	59.180	33.681	36.981		36.981	37.259	35.267	32.115	26.666	Continuing	Continuing

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.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160481BB: <i>SOF Munitions</i>	PROJECT S800: <i>SO Munitions Advanced Development</i>

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160481BB: <i>SOF Munitions</i>	PROJECT S800: <i>SO Munitions Advanced Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Non-Standard Materiel</i>				
Purchase Test Articles	2	2012	2	2013
<i>Evaluation of Insensitive Munitions (IM)</i>				
Evaluation of IM	2	2012	4	2013
<i>Testing of IM</i>				
Testing of IM	2	2012	4	2013

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i>			PE 1160482BB: <i>SOF Rotary Wing Aviation</i>								
BA 7: <i>Operational Systems Development</i>											
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	54.985	51.123	24.430	-	24.430	47.448	32.663	14.820	18.268	Continuing	Continuing
D615: <i>SOF Rotary Wing Aviation</i>	54.985	51.123	24.430	-	24.430	47.448	32.663	14.820	18.268	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element 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-60L/M, MH-47G, and A/MH-6M. These aircraft provide aviation support to Special Operations Forces (SOF) in worldwide contingency operations and low-intensity conflicts. They must be capable of rapid deployment; undetected penetration of hostile areas; and operating at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	14.473	51.123	35.551	-	35.551
Current President's Budget	54.985	51.123	24.430	-	24.430
Total Adjustments	40.512	-	-11.121	-	-11.121
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	41.520	-			
• SBIR/STTR Transfer	-0.837	-			
• Other Adjustment	-0.171	-	-11.121	-	-11.121

Change Summary Explanation

FY 2011: Net increase of \$40.512 million is due to a USSOCOM request for Congressional transfer of procurement to RDT&E (\$19.292 million) for MH-60 SOF Modernization flight and qualification testing, a reprogramming of (-\$4.086 million) to several program elements that were used for MH-60 SOF Modernization flight and qualification testing, a reprogramming (-\$0.496 million) to the YMQ-18A Forester Advanced Concepts Technology Demonstration; an Omnibus reprogramming (FY11-25 PA , dated 6 September 2011) to support Hostile Fire Indication Systems: integration into the AVR-2B laser warning sensor (\$9.600 million), a Hostile Fire Indication System fully fused extended user evaluation (\$5.610 million), development of Degraded Visual Environment (DVE) (\$6.0 million) and Multiple Impact Transparent Armor System (MITAS) (\$5.650 million) to procure shipsets on MH-47s and MH-60s to increase aircrew and passenger safety; 1415-3 internal reprogramming request is pending to transfer the MITAS \$5.650 million from RDT&E to procurement to procure shipsets; and economic adjustments of (-\$0.171 million) and a transfer to Small Business Innovative Research (-\$0.837 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160482BB: <i>SOF Rotary Wing Aviation</i>

FY 2012: None.

FY 2013: Net decrease of (-\$11.121 million) is due to reprogramming to support higher command priorities (-\$11.415 million), and economic assumption increase of \$0.294 million.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>
---	---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
D615: <i>SOF Rotary Wing Aviation</i>	54.985	51.123	24.430	-	24.430	47.448	32.663	14.820	18.268	Continuing	Continuing
Quantity of RDT&E Articles											

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-60L/M, 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 includes development of an integrated digital moving map, upgraded multifunctional displays, improved communication/navigation suites, lightweight mission processor, structural upgrades, and next generation main/tail rotor systems. This upgrade modification will increase safety margins and increase operational capabilities at higher altitude and temperature conditions.
- The A/MH-6 Improved Seat system will provide a crash-worthy ballistic protection, crash attenuation, and restraint system upgrades to prevent severe injury to Army Special Operations Aviation (ARSOA) pilots. The Center for Army Lessons Learned reported that over a three year period, 50 ARSOA pilots suffered serious back injuries and were grounded due to hard landings.
- Hostile Fire Indicating System (HFIS) detects, classifies, and alerts the aircrew to the presence of small caliber weapons fire for SOF MH-47/60 platforms. By providing detection and angle of arrival information, the HFIS will allow the aircrew to perform evasive and counter-fire actions significantly increasing the aircraft's probability of survival. The Helicopter Survivability Task Force (HSTF) additional funds will incorporate Hostile Fire Indication in the Infrared Spectrum as well as providing sensor fusion of Infrared, Ultra-Violet, and acoustic sensors in order to reduce false alarms and increase probability of detection.
- The MH-47 Engine Automatic Re-Light (EARL) system will detect the presence of an impending or an in-progress engine flame-out event and re-establish combustion within the engine to avoid an actual engine flame-out. EARL will recognize the event much faster than a pilot and then proceed to reignite/restart the engine while monitoring and adjusting engine parameters including the ignition system and fuel flow scheduling. EARL is required to address safety issues in the MH-47 fleet where engine flame-out has been cited as one of the probable causes of the loss of an MH-47G with loss of life in support of Operation Enduring Freedom.
- MH-47 Low Cost Modifications program is an effort to integrate an improved Common Rotor Blade (CRB) being developed by the Army into the MH-47G.
- MH-60 SOF Modernization program provides for the systems engineering and platform integration efforts, to include continued flight and qualification testing and test support.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>
---	---	---

- Next Generation Forward Looking Infrared Radar (NGFLIR) develops and qualifies a laser rangefinder/designator (LRF/D) for the AN/ZSQ-3 Electro Optical Sighting System (EOSS).
- Reduced Optical Signature Emissions Solution (ROSES) program reduces the optical signature output of the current infrared expendable decoys for purposes of reducing Army Special Operations Aviation (ARSOA) aircraft vulnerabilities. This flare solution will have the capability to decoy currently fielded infrared missiles and more sophisticated emerging threats, and is an interim solution pending flare technology advancements.
- 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-47/60/6 aircrews with visual cues for obstacle avoidance and aircraft control during all phases of flight and significantly increase crew and passenger survivability in DVE such as dirt and snow. Additional funding is provided to enhance the maturity of the rotor-craft and begin software development.
- Aircraft Occupant Ballistic Protection System (AOBPS) is a follow-on procurement for ship-sets of Multiple Impact Transparent Armor System (MITAS) panels that were developed with Helicopter Survivability Task Force (HSTF) FY 2010 RDT&E funds. These components will replace panels and windows to increase aircrew and passenger safety and survivability.

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

	FY 2011	FY 2012	FY 2013
Title: A/MH-6M Block 3.0 Upgrade FY 2012 Plans: Begins development of cockpit upgrades, improved rotor systems, and upgrades to airframe. FY 2013 Plans: Continue development of cockpit upgrades, improved rotor systems, and upgrades to airframe.	-	18.765	13.145
Title: A/MH-6 Improved Seat System FY 2011 Accomplishments: Completed development of integrated crash-worthy seat system for the A/MH-6M.	2.616	-	-
Title: Hostile Fire Indicating System (HFIS) FY 2011 Accomplishments: Completed development of the detection, classification and alert systems for the HFIS. HSTF provided additional \$15.210 million for AVR-2B HFIS integration and HFIS sensor fusion with extended user evaluation.	18.872	-	-
Title: MH-47 Engine Automatic Re-Light (EARL) FY 2012 Plans:	-	2.563	0.793

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Begins development of the MH-47 fleet EARL system. FY 2013 Plans: Continue development of the MH-47 fleet EARL system.				
Title: MH-47 Low Cost Modifications FY 2012 Plans: Begins integration of the Army's improved common rotor blade into the MH-47G. FY 2013 Plans: Continue integration of the Army's improved common rotor blade into the MH-47G.		-	5.122	5.735
Title: MH-60 SOF Modernization Program FY 2011 Accomplishments: Continued systems integration and qualification efforts on one prototype MH-60M helicopter. FY 2012 Plans: Completes systems integration and qualification efforts on one prototype MH-60M helicopter.		19.045	22.782	-
Title: Next Generation FLIR FY 2011 Accomplishments: Completed development, integration and qualification of LRF/D for the AN/ZSQ-3 Electrical Optical Sighting System.		1.391	-	-
Title: Reduced Optical Signature Emissions Solution (ROSES) FY 2011 Accomplishments: Continued development of ROSES. FY 2012 Plans: Completes development of ROSES.		1.411	1.891	-
Title: Degraded Visual Environment (DVE) FY 2011 Accomplishments: Omnibus provided for a collaborative effort with Defense Advanced Research Project Agency (DARPA) to begin development of firmware/software for the DVE sensor solution with avionics backbone for ARSOA platforms. This effort is the engineering foundation to the FY 2013 sensor solution effort. FY 2013 Plans:		6.000	-	4.757

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>
---	---	---

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Begin development, integration, and testing of DVE sensors solution with avionics backbone (developed with FY 2011 funds) for Army Special Operations Aviation (ARSOA) platforms.			
Title: Aircraft Occupant Ballistic Protection System (AOBPS)	5.650	-	-
FY 2011 Accomplishments: Reprogramming to procurement in order to procure shipsets of MITAS panels that were developed with HSTF FY 2010 RDT&E funds. These components will replace panels and windows to increase aircrew and passenger safety and survivability.			
Accomplishments/Planned Programs Subtotals	54.985	51.123	24.430

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC2: <i>ROTARY WING UPGRADES AND SUSTAINMENT</i>	95.473	41.411	73.888		73.888	83.608	162.768	182.903	183.589	Continuing	Continuing

D. Acquisition Strategy

- A/MH-6M Block 3.0 Upgrade - This effort develops and qualifies several aircraft improvements such as an integrated digital moving map, upgraded multifunctional displays, improved communication/navigation suites, lightweight mission processor, structural upgrades, and next generation main and tail rotor systems. This effort is critically required to make the A/MH-6M more relevant on the battlefield today and well into 2020 decade. This effort will increase safety margins and increase operational capabilities at higher altitude and temperature conditions. Competitive source selection processes will be conducted for the Block 3.0 upgrades to the extent possible. Proprietary considerations may direct some efforts to the original equipment manufacturer.

- A/MH-6M Improved Seat System - This effort develops and qualifies an integrated ballistic tolerant, ergonomic, and crashworthy crew seat system for the A/MH-6M fleet. This modification will provide critical protection from crash loads and airframe vibrations by upgrading the current A/MH-6M seat and restraint system. A competitive source selection process will be conducted for the crashworthy seat system replacement to the extent possible. Proprietary considerations may direct some efforts to the original equipment manufacturer.

- HFIS - This effort will develop, integrate, install, and field the capability to detect, classify, and alert the aircrew to the presence of small arms fire, Anti-Aircraft Artillery, and Rocket Propelled Grenades. HFIS will allow aircrews to perform evasive and counter-fire actions, which will increase aircraft survivability and mission success. A competitive source selection process will be conducted for the HFIS effort to the extent possible. Proprietary considerations may direct some efforts to the original equipment manufacturer. The HSTF additional funds will incorporate Hostile Fire Indication in the Infrared Spectrum as well as providing sensor fusion of Infrared, Ultra-violet, and acoustic sensors in order to reduce false alarms and increase probability of detection.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command	DATE: February 2012
--	----------------------------

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	D615: <i>SOF Rotary Wing Aviation</i>

- MH-47 EARL System - This effort develops and qualifies a solution to address safety issues in the MH-47 fleet through the development, test, qualification, and fielding of changes to the engine control system to perform automatic engine failure detection and flame-out protection. A competitive source selection process will be conducted for the EARL system to the extent possible. Proprietary considerations may direct some efforts to the original equipment manufacturer.

- MH-47 Low Cost Modification to integrate the Army Common Rotor Blade (CRB) - This effort integrates and qualifies a CRB solution that significantly increases payload capability, expands forward flight envelope, improves manufacturing and maintenance characteristics, and maintains commonality with the Army. As the MH-47 CRB integration leverages Army CRB development activities with the original equipment manufacturer, 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.

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

- NGFLIR - Develops, integrates and qualifies the laser rangefinder and designator to the AN/ZSQ-3 and develops a drop-in, advanced, dual-color (long and mid-wave) IR detector upgrade for the AN/ZSQ-2. NGFLIR will be installed on the MH-47/60 and AH-6M platforms within the ARSOA fleet. Proprietary considerations may direct some efforts to the original equipment manufacturer.

- ROSES - This effort develops and qualifies a flare solution that discharges fewer expendables per dispense and emits less visible light to improve aircrew's ability to survive in sophisticated threat environments. A competitive source selection process will be conducted for the ROSES to the extent possible. Proprietary considerations may direct some efforts to the original equipment manufacturer.

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

- AOBPS -This is a follow-on procurement for shipsets of Multiple Impact Transparent Armor System panels that were developed with HSTF FY 2010 RDT&E funds. These components will replace panels and windows to increase aircrew and passenger safety and survivability.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>
---	---	---

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
A/MH-6M Block 3.0 Upgrades	C/Various	PM MELB:Ft. Eustis, VA.	-	18.765	Jan 2012	13.145	Jan 2013	-		13.145	Continuing	Continuing	
MH-47G EARL	C/Various	PM TAPO:Ft. Eustis, VA.	-	2.563	Jan 2012	0.793	Apr 2013	-		0.793	Continuing	Continuing	
MH-47G Low Cost Mods	C/Various	PM TAPO:Ft. Eustis, VA.	-	5.122	Jan 2012	5.735	Jan 2013	-		5.735	Continuing	Continuing	
ROSES	C/Various	PM TAPO:Ft. Eustis, VA.	6.667	1.891	Jan 2012	-		-		-	0.000	8.558	
DVE	C/Various	PM TAPO:Ft. Eustis, VA.	-	-		4.757	Jan 2013	-		4.757	Continuing	Continuing	
Prior Year - Completed efforts	Various	Various:Various	81.258	-		-		-		-	0.000	81.258	
Subtotal			87.925	28.341		24.430		-		24.430			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MH-60 SOF Modernization Program	C/Various	Various:Various	49.261	22.782	Nov 2011	-		-		-	0.000	72.043	
Prior Years	Various	Various:Various	15.836	-		-		-		-	0.000	15.836	
Subtotal			65.097	22.782		-		-		-	0.000	87.879	

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Years	Various	Various:Various	5.279	-		-		-		-	0.000	5.279	
Subtotal			5.279	-		-		-		-	0.000	5.279	

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
A/MH-6M Block 3.0 Development/Qualification/Testing																												
A/MH-6M Improved Seat System Development																												
HFIS																												
MH-47G EARL/Qualification/Test																												
MH-47G Low Cost Mods Qualification/Testing																												
MH-60 SOF Modernization Program Qualification/Testing																												
NGFLIR Development/Qualification/Testing for AN/ZSQ-3																												
NGFLIR Development/Qualification/Testing for AN/ZSQ-2																												
ROSES Development/Qualification/Test																												
DVE																												
AOBPS																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160482BB: <i>SOF Rotary Wing Aviation</i>	PROJECT D615: <i>SOF Rotary Wing Aviation</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
A/MH-6M Block 3.0 Development/Qualification/Testing	2	2012	4	2015
A/MH-6M Improved Seat System Development	2	2011	2	2012
HFIS	1	2011	1	2012
MH-47G EARL/Qualification/Test	2	2012	4	2014
MH-47G Low Cost Mods Qualification/Testing	2	2012	4	2015
MH-60 SOF Modernization Program Qualification/Testing	1	2011	4	2012
NGFLIR Development/Qualification/Testing for AN/ZSQ-3	1	2011	4	2011
NGFLIR Development/Qualification/Testing for AN/ZSQ-2	2	2016	4	2017
ROSES Development/Qualification/Test	2	2011	4	2012
DVE	1	2012	4	2015
AOBPS	2	2012	4	2012

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>
---	---

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	27.725	68.424	26.405	-	26.405	67.308	17.748	0.096	0.098	0.000	207.804
S0417: <i>SOF Underwater Systems</i>	27.725	68.424	26.405	-	26.405	67.308	17.748	0.096	0.098	0.000	207.804

A. Mission Description and Budget Item Justification

This program element provides for engineering and manufacturing development and operational systems development of small combat underwater submersibles and underwater support systems and equipment. This program element 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.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	13.986	92.424	104.988	-	104.988
Current President's Budget	27.725	68.424	26.405	-	26.405
Total Adjustments	13.739	-24.000	-78.583	-	-78.583
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-24.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.718	-			
• Other Adjustment	14.457	-	-78.583	-	-78.583

Change Summary Explanation

Funding:

FY 2011: Net increase of \$13.739 million is due to a reprogramming from the Joint Multi-Mission Submersible program via the FY 2011 Appropriations Bill (\$14.924 million), an economic assumption reduction (-\$0.467 million) and a transfer of funds to Small Business Innovation Research (-\$0.718 million).

FY 2012: Decrease of \$24.000 million due to a congressional reduction for program excessive growth (-\$24.000 million).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160483BB: <i>SOF Underwater Systems</i>

FY 2013: Net decrease of \$78.583 million is due to postponement of the Dry Combat Submersible Light and the Future Dry Deck Shelter Extension Modification programs (-\$68.716 million), reprogramming to higher command priorities (-\$10.183 million) and an economic assumption increase (\$0.316 million).

Schedule: Delays in Dry Combat Submersible programs due to manpower limitations and competing priorities.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>
---	---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S0417: <i>SOF Underwater Systems</i>	27.725	68.424	26.405	-	26.405	67.308	17.748	0.096	0.098	0.000	207.804
Quantity of RDT&E Articles											

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. Also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by Special Operations Forces (SOF) in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

- **Combat Submersibles:** Includes incorporating obsolescence solutions and conducting product improvement efforts for the in-service SEAL Delivery Vehicle MK 8 and conducting technology development and engineering and manufacturing development for the follow-on combat submersibles such as the various types of shallow water combat submersibles. The shallow water combat submersibles use an evolutionary acquisition approach to develop a family of submersibles, to include a new wet submersible capable of operating from existing Dry Deck Shelters, and more capable wet and/or dry submersibles that will operate from future large submarine shelters/systems and/or surface ships. The combat submersible sub-project leverages existing SEAL Delivery Vehicle components, develops new state-of-the-art components where appropriate, and leases or purchases commercial-off-the-shelf components and vehicles for test and evaluation and operational assessment.
- **Underwater Support Systems and Equipment:** Includes conducting product improvement efforts for in-service submarine support systems such as the Dry Deck Shelters, unmanned underwater vehicles such as the Semi-autonomous Hydrographic Reconnaissance Vehicle, and diver equipment such as the Hydrographic Mapping Unit, Non-gasoline Burning Outboard Engines and Diver Propulsion Devices. Also provides for technology development and engineering and manufacturing development, and studies and analysis for follow-on underwater systems and support equipment.

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

	FY 2011	FY 2012	FY 2013
Title: Shallow Water Combat Submersible (Block I)	12.413	26.566	8.989
FY 2011 Accomplishments: Completed source selection and made down-select to single contractor for detailed design and development for a new Shallow Water Combat Submersible capability.			
FY 2012 Plans: Complete critical design review for Block I and conduct developmental test.			
FY 2013 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Completes contractor quality assurance, acceptance and system build up test. Continues test and evaluation of SWCS Block I. Begins contractor verification trials.				
Title: Dry Combat Submersibles		14.064	39.858	9.234
FY 2011 Accomplishments: Completed design and engineering assessment of user operational evaluation (UOES) project of a small commercial-off-the-shelf submersible. Commenced design and construction of an advanced technology demonstrator prototype (UOES #2) that uses commercial dry submersible technology to demonstrate potential key performance parameters and key system attributes.				
FY 2012 Plans: Procure government furnished equipment, continues commercial submersible prototyping efforts for an advanced technology demonstrator (UOES #2). Commence additional prototyping efforts. Project initiated as part of Congressional Adds: Alternative SOF Submersible Concept Design Study in Program Element 1160483BB.				
FY 2013 Plans: Continues commercial submersible prototype efforts, including the construction of UOES #2 and potential design and construction of additional advanced technology demonstrator prototypes.				
Title: Dry Deck Shelter		0.068	2.000	3.154
FY 2011 Accomplishments: Drafted acquisition program documentation, and contract request for proposal for dry deck shelter extension.				
FY 2012 Plans: Conduct Analysis of Alternatives for next generation shelter to accommodate family of combat submersibles.				
FY 2013 Plans: Continues Analysis of Alternatives for next generation shelter and evaluate SOF Underwater Systems mobility needs.				
Title: Dry Combat Submersible Medium (DCSM)		-	-	5.028
FY 2013 Plans: Performs studies and analysis to prepare for the commencement of a DCSM acquisition program at Milestone B based on results of user operational evaluation projects.				
Title: SEAL Delivery Vehicle (SDV) Technology Refresh		1.180	-	-
FY 2011 Accomplishments: Tested and integrated upgraded systems to the SDV for improved communications and navigation.				
Accomplishments/Planned Programs Subtotals		27.725	68.424	26.405

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>			<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>Underwater Systems</i>	0.000	6.999	23.037		23.037	33.017	36.213	80.813	73.834	37.000	290.913
• PROC2: <i>MK8 MOD1 SEAL Delivery Vehicle</i>	0.818									0.000	0.818
• PROC3: <i>Maritime Equip</i>	0.800									0.000	0.800

D. Acquisition Strategy

- Combat Submersibles: Shallow Water Combat Submersible Block I used full and open competition, with a down-select to a single contractor. Broad Agency Announcements were issued for Dry Combat Submersible multiple design efforts with follow-on prototyping. Additionally, existing contracts are utilized where appropriate for various component development and prototypes.
- Dry Deck Shelter Extension Modification: Dry Deck Shelter will use full and open competition for the modification to the current Dry Deck Shelter system.
- Underwater Support Systems and Equipment: Existing contracts are utilized where appropriate, and various new contracts are awarded as necessary.

E. Performance Metrics

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>
---	---	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Shallow Water Combat Submersible (Block I)	C/Various	Teledyne Brown Engineering:Huntsville, AL	19.128	19.885	Apr 2012	4.549	May 2013	-		4.549	1.874	45.436	44.727
Dry Combat Submersibles	C/Various	Various:Various	16.162	38.521	Jul 2012	6.144	Aug 2013	-		6.144	4.083	64.910	
Prior Year Funding	Various	Multiple:Multiple	15.860	-		-		-		-	0.000	15.860	
Subtotal			51.150	58.406		10.693		-		10.693	5.957	126.206	

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Shallow Water Combat Submersibles (Block I)	Various	NSWC and NAVSEA:Panama City, FL and Washington, DC	1.632	1.289	Jan 2012	0.200	Feb 2013	-		0.200	0.000	3.121	
Dry Combat Submersibles	Various	TBD:TBD	2.643	-		-		-		-	0.000	2.643	
Dry Deck Shelter	Various	Various:Various	-	1.761	May 2012	2.917	May 2013	-		2.917	0.000	4.678	
Dry Combat Submersible Medium	TBD	TBD:TBD	-	-		2.322	May 2013	-		2.322	4.253	6.575	
Subtotal			4.275	3.050		5.439		-		5.439	4.253	17.017	

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Shallow Water Combat Submersible (Block I)	Various	NSWC, NAVSEA:Panama City, FL/Washington, DC	2.486	3.802	Apr 2012	2.522	Jan 2013	-		2.522	1.516	10.326	
Dry Combat Submersible	C/Various	TBD:TBD	-	0.451	May 2012	1.992	May 2013	-		1.992	8.065	10.508	
Subtotal			2.486	4.253		4.514		-		4.514	9.581	20.834	

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017											
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
Shallow Water Combat Submersible (Block I)																																				
Milestone B	■																																			
Engineering & Manufacturing Development (Block I)	■																																			
Developmental Test (Block I)					■																															
Operational Test (Block 1)														■																						
Dry Combat Submersibles																																				
Analysis, Component Development and Prototypes			■																																	
Dry Deck Shelter																																				
Analysis of Alternatives for Next Generation Shelter					■																															
Dry Combat Submersible Medium																																				
Engineering Analysis and Program Planning												■																								
Milestone B																																				

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160483BB: <i>SOF Underwater Systems</i>	PROJECT S0417: <i>SOF Underwater Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Shallow Water Combat Submersible (Block I)</i>				
Milestone B	1	2011	1	2011
Engineering & Manufacturing Development (Block I)	1	2011	1	2014
Developmental Test (Block I)	2	2012	2	2014
Operational Test (Block 1)	3	2014	1	2015
<i>Dry Combat Submersibles</i>				
Analysis, Component Development and Prototypes	4	2011	4	2014
<i>Dry Deck Shelter</i>				
Analysis of Alternatives for Next Generation Shelter	3	2012	4	2013
<i>Dry Combat Submersible Medium</i>				
Engineering Analysis and Program Planning	3	2013	4	2015
Milestone B	4	2015	1	2016

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 1160484BB: <i>SOF Surface Craft</i>								
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	18.953	14.475	8.573	-	8.573	5.917	-	-	-	0.000	47.918
S1684: <i>SOF Surface Craft Advanced Systems</i>	18.953	14.475	8.573	-	8.573	5.917	-	-	-	0.000	47.918

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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	2.933	14.475	2.165	-	2.165
Current President's Budget	18.953	14.475	8.573	-	8.573
Total Adjustments	16.020	-	6.408	-	6.408
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.490	-			
• SBIR/STTR Transfer	-0.470	-			
• Other Adjustment	16.000	-	6.408	-	6.408

Change Summary Explanation

Funding:

FY 2011: Net increase of \$16.020 million is due to a Congressional Add for the Combatant Craft Medium (CCM) (\$16.000 million), an economic assumption reduction (-\$0.490 million) and a transfer of funds to Small Business Innovative Research (-\$0.470 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160484BB: <i>SOF Surface Craft</i>

FY 2013: Increase of \$6.408 million supports engineering, manufacturing, development and test of the Combatant Craft Medium (CCM) (\$6.305 million) and an economic assumption increase (\$0.103 million).

Schedule: Contracts awarded for CCM to Oregon Iron Works (OIW), Clackamas, OR., and United States Marine, Inc, (USMI), Gulfport, MS, September 2011. Awards protested to Government Accountability Office (GAO) October 2011 resulting in schedule delay.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>				PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
S1684: <i>SOF Surface Craft Advanced Systems</i>	18.953	14.475	8.573	-	8.573	5.917	-	-	-	0.000	47.918
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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

- The Combatant Craft Medium (CCM) sub-project provides a family of next generation combatant craft to replace the current rigid inflatable boat (RIB) and the MKV. One version of these craft will be a reconfigurable, multi-mission surface tactical mobility craft with a primary mission of insertion and extraction of SOF in a medium threat environment. It will incorporate additional performance capabilities above current platform capabilities such as shock mitigation, low observability, improved maneuverability and SOF warfighting capabilities required to operate in future threat environments. Other variants of craft will be developed to support foreign security assistance missions and operations in low or permissive threat environments. These variants are dependent on the threat environment, training requirement, or mission.
- The Combatant Craft Heavy (CCH) sub-project represents a family of solutions that will provide engineering support for design and specification of a development combatant craft for movement and maneuver of SOF personnel. Requirements include maneuverability, reduced detectability with enhanced shock mitigation, and human systems integration.

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

	FY 2011	FY 2012	FY 2013
Title: Combatant Craft Medium	18.953	13.620	8.573
FY 2011 Accomplishments: Completed source selection, awarded contracts, and initiated development of components and test articles (advanced prototypes).			
FY 2012 Plans: Build and test components and test articles.			
FY 2013 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>	PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Completes build and contractor testing; delivers and conducts operational testing of test articles.			
Title: Combatant Craft Heavy	-	0.855	-
FY 2012 Plans: Conduct risk reduction activities, develop documentation for a replacement combatant craft and refine requirements.			
Accomplishments/Planned Programs Subtotals	18.953	14.475	8.573

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>SOF COMBATANT CRAFT SYSTEMS</i>	8.260	70.899	42.348		42.348	43.860	50.085	23.097	23.170	87.852	349.571

- D. Acquisition Strategy**
- Combatant Craft Medium acquisition strategy is a competition using a two-phase source selection process. Phase I involves a Small Business Set-Aside competition for two or more companies to design, build and deliver test articles. Phase II selects a single company to provide a fully integrated baseline craft system for test and evaluation with options for production, engineering support and contractor logistic support. Acquisition strategies for other craft may be based on the rapid acquisition of available non-developmental commercial-off-the-shelf/government-off-the-shelf craft.
 - Combatant Craft Heavy acquisition strategy is to complete the initial planning and studies for the craft, which will be performed in-house with some support from other government agencies or existing contract services.

E. Performance Metrics
N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>	PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Combatant Craft Medium	C/Various	USMI / OIW:Gulfport, MS / Clackamas, OR	15.917	12.061	Sep 2012	3.833	Jul 2013	-		3.833	2.500	34.311	
Prior Year Funding	C/Various	Various:Various	19.514	-		-		-		-	0.000	19.514	
Subtotal			35.431	12.061		3.833		-		3.833	2.500	53.825	

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Combatant Craft Medium	MIPR	NSWC / TBD:Norfolk, VA / TBD	0.244	0.244	Aug 2012	3.340	Aug 2013	-		3.340	2.113	5.941	
Combatant Craft Heavy	WR	TBD:TBD	-	0.180	Jun 2012	-		-		-	0.000	0.180	
Prior Year Funding	C/Various	Various:Various	1.273	-		-		-		-	0.000	1.273	
Subtotal			1.517	0.424		3.340		-		3.340	2.113	7.394	

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Combatant Craft Medium	C/Various	NSWC,:Norfolk, VA	3.378	0.220	Mar 2012	0.230	Mar 2013	-		0.230	0.230	4.058	
Combatant Craft Medium	C/Various	NSWC:Crane, IN	-	0.125	Mar 2012	0.150	Mar 2013	-		0.150	0.150	0.425	
Combatant Craft Medium	C/Various	Global Battlestaff & Program Support:MacDill AFB, FL	-	0.970	May 2012	1.020	May 2013	-		1.020	0.850	2.840	
Combatant Craft Heavy	C/Various	TBD:TBD	-	0.675	Mar 2012	-		-		-	0.000	0.675	
Prior Year Funding	C/Various	Various:Various	1.128	-		-		-		-	0.000	1.128	
Subtotal			4.506	1.990		1.400		-		1.400	1.230	9.126	

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 United States Special Operations Command							DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>			PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>					
	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	41.454	14.475		8.573		-		8.573	5.843	70.345	

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 United States Special Operations Command			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>	PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017																			
	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	██████████																																											
Build Competitive Prototypes					██																																							
Developmental Test/Operational Test									██████████																																			
Final Downselect									██████████																																			
Low Rate Initial Production													████████████████████████████████████																															
Operational Evaluation																	██████████																											
Initial Operational Capability																					██████████																							
Combatant Craft Heavy																																												
Risk Reduction Activities					████████████████████████████████████																																							

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 United States Special Operations Command		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160484BB: <i>SOF Surface Craft</i>	PROJECT S1684: <i>SOF Surface Craft Advanced Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Combatant Craft Medium				
Proposals, Source Selection & Contract Award	1	2011	4	2011
Build Competitive Prototypes	1	2012	4	2013
Developmental Test/Operational Test	4	2013	1	2014
Final Downselect	3	2013	4	2013
Low Rate Initial Production	1	2014	4	2014
Operational Evaluation	1	2015	2	2015
Initial Operational Capability	2	2015	2	2015
Combatant Craft Heavy				
Risk Reduction Activities	3	2012	1	2013

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160488BB: <i>Military Information Support Operations (MISO) (Formerly SOF PSYOP)</i>
---	--

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	4.109	2.990	-	-	-	-	-	-	-	0.000	7.099
D476: <i>Military Information Support Operations</i>	4.109	2.990	-	-	-	-	-	-	-	0.000	7.099

A. Mission Description and Budget Item Justification

Beginning in FY2012, Program Element 1160488BB was renamed Military Information Support Operations (MISO). Former name was SOF PSYOP.

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

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.193	2.990	-	-	-
Current President's Budget	4.109	2.990	-	-	-
Total Adjustments	-0.084	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.041	-			
• SBIR/STTR Transfer	-0.104	-			
• Other Adjustments	-0.021	-			

Change Summary Explanation

Funding:

FY 2011: Net decrease of \$0.084 million due to reprogramming to higher command priorities (\$0.041 million), economic assumption reductions (-\$0.021 million), and a transfer to Small Business Innovative Research (-\$0.104 million).

FY 2012: None.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 1160488BB: <i>Military Information Support Operations (MISO) (Formerly SOF PSYOP)</i>

FY 2013: N/A.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160488BB: <i>Military Information Support Operations (MISO) (Formerly SOF PSYOP)</i>	PROJECT D476: <i>Military Information Support Operations</i>
---	--	--

COST (\$ in Millions)	FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		Cost To Complete	Total Cost
	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017			
D476: <i>Military Information Support Operations</i>	4.109	2.990	-	-	-	-	-	-	-	-	0.000	7.099
Quantity of RDT&E Articles												

A. Mission Description and Budget Item Justification

This project provides for the development and acquisition of Military Information Support Operations (MISO) equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct MISO in support of combatant commanders. The MISO sub-projects funded are grouped by the level of organization they support. Sub-projects include:

- The MISO Broadcast System consists of fixed and deployable multi-media production facilities for radio and television programming, distribution systems, and dissemination systems to provide MISO support to theater commanders. This program is comprised of several interfacing systems that can stand alone or interoperate with other MISO systems as determined by mission requirements. This program includes the fixed site media production center; a lightweight, deployable media production capability; a distribution system that provides a product distribution link to systems worldwide; a media system; a transit case fly-away broadcast systems that consists of a combination of amplitude modulation (AM), frequency modulation (FM), shortwave (SW), and television (TV) transmitters, and radio/TV production systems; software defined radio and a long range broadcast system which transmits analog and digital broadcasts. The long range broadcast system will include unmanned aerial vehicle payloads, scatterable media, telephony, and Internet broadcast. MISO media displays will consist of easily transportable, state of the art, electronic media displays designed to disseminate and direct broadcast electronic messages, which will influence foreign target audiences, and will support the MISO direct broadcast mission requirements. The Special Operations Media System-B is a tactical deployable radio and television broadcast system. It is designed to act as the forward deployed broadcast platform of products. It has limited production capabilities and consists of two independent systems: a mobile radio broadcast system (AM, FM, SW) and a mobile television broadcast system (VHF, UHF) capable of receiving audio and video products for broadcasting. Additionally, lightweight and tactical media development work stations will allow soldiers to produce MISO products in deployed locations.
- Commando Solo: Commando Solo supports combat operations by flying broadcast missions for the purpose of broadcasting analog and digital radio and/or television signals deep into denied territory. These broadcasts are made from EC-130J aircraft that are equipped with high powered transmitters and large antenna arrays that operate in the 0.45 - 1,000 MHz frequency range. The Commando Solo program acquisition strategy includes conducting engineering analyses to develop digital broadcast capabilities for the EC-130J and C-130J aircraft. Commando SOLO will leverage development and hardware from the Fly-Away Broadcast System.

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

	FY 2011	FY 2012	FY 2013
Title: MISO Broadcast System	3.909	2.990	-
FY 2011 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160488BB: <i>Military Information Support Operations (MISO) (Formerly SOF PSYOP)</i>	PROJECT D476: <i>Military Information Support Operations</i>
---	--	--

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Continued primary hardware development, systems engineering, and DT&E on the long range broadcast technology, broadcast modernization efforts and media displays. FY 2012 Plans: Continues primary hardware development, systems engineering, and DT&E on the long range broadcast technology, broadcast modernization efforts and media displays.			
Title: EC-130J Commando Solo FY 2011 Accomplishments: Completed engineering study of government and commercial digital broadcast technologies applicable to MISO.	0.200	-	-
Accomplishments/Planned Programs Subtotals	4.109	2.990	-

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

<u>Line Item</u>	FY 2011	FY 2012	FY 2013 <u>Base</u>	FY 2013 <u>OCO</u>	FY 2013 <u>Total</u>	FY 2014	FY 2015	FY 2016	FY 2017	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>Military Information Support Operations Systems</i>	20.331	4.142	27.417		27.417	14.471	12.690	14.752	14.352	Continuing	Continuing

D. Acquisition Strategy

- MISO Broadcast System consists of wide-area systems providing radio, television programming and multi-media production, distribution and dissemination support to the theater commander. This system is comprised of several interfacing systems that can stand alone or interoperate with other systems as determined by mission requirements. These various sub-programs are in a post-Milestone C or various stages of milestone decisions. Media displays consist of electronic media displays, modular systems, electronic paper, and electronic games. The program acquires and modifies, as necessary, commercial off-the-shelf /government off-the-shelf COTS/GOTS systems and equipment to provide the system capabilities.
- Commando Solo funds modifications of the Commando Solo special mission equipment that broadcasts television and radio messages to target audiences in denied areas. Enhancements are periodically required to meet theater commander operational requirements and maintain compatibility with forces equipment upgrades to allow in-flight receipt of products for dissemination. The program acquires and integrates into the EC-130J commercial and GOTS systems to replace or enhance current system capabilities and address equipment shortfalls due to obsolescence.

E. Performance Metrics
N/A

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED