# Department of Defense
# Fiscal Year (FY) 2015 Budget Estimates

March 2014

## United States Special Operations Command

*Defense Wide Justification Book Volume 5 of 5*

***Research, Development, Test & Evaluation, Defense-Wide***

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## Table of Volumes

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

10 Feb 2014

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

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

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Defense-Wide
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Appropriation: 0400D Research, Development, Test & Eval, DW

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

R-1C1: FY 2015 President's Budget (Published Version), as of February 10, 2014 at 10:56:24

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| 253 | 1160432BB | Special Programs | 07 | | 7,424 | | 7,424 | 20,908 | U |
| 254 | 1160474BB | SOF Communications Equipment and Electronics Systems | 07 | 1,976 | | | | | U |
| 255 | 1160476BB | SOF Tactical Radio Systems | 07 | 2,697 | | | | | U |
| 256 | 1160477BB | SOF Weapons Systems | 07 | 1,610 | | | | | U |
| 257 | 1160478BB | SOF Soldier Protection and Survival Systems | 07 | 3,748 | | | | | U |
| 258 | 1160479BB | SOF Visual Augmentation, Lasers and Sensor Systems | 07 | 3,649 | | | | | U |
| 259 | 1160480BB | SOF Tactical Vehicles | 07 | 10,935 | 2,206 | | 2,206 | 3,672 | U |
| 260 | 1160481BB | SOF Munitions | 07 | 1,346 | | | | | U |
| 261 | 1160482BB | SOF Rotary Wing Aviation | 07 | 25,166 | | | | | U |
| 262 | 1160483BB | Maritime Systems | 07 | 66,263 | 29,481 | | 29,481 | 57,905 | U |
| 263 | 1160484BB | SOF Surface Craft | 07 | 7,713 | | | | | U |
| 264 | 1160489BB | Global Video Surveillance Activities | 07 | 6,999 | 3,304 | | 3,304 | 3,788 | U |
| 265 | 1160490BB | Operational Enhancements Intelligence | 07 | 12,209 | 14,446 | | 14,446 | 16,225 | U |
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## 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***



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

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

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

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

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

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

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

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

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

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

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

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

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 2: *Applied Research* | **R-1 Program Element (Number/Name)**<br>PE 1160401BB / *SOF Technology Development* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 336.051 | 37.515 | 28.307 | 39.750 | - | 39.750 | 37.789 | 38.334 | 33.889 | 34.450 | Continuing | Continuing |
| S100: *SOF Technology Development* | 336.051 | 37.515 | 28.307 | 39.750 | - | 39.750 | 37.789 | 38.334 | 33.889 | 34.450 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 28.739 | 29.246 | 29.750 | - | 29.750 |
| Current President's Budget | 37.515 | 28.307 | 39.750 | - | 39.750 |
| Total Adjustments | 8.776 | -0.939 | 10.000 | - | 10.000 |
| • Congressional General Reductions | -3.363 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.055 | - | | | |
| • Congressional Adds | 12.852 | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 0.181 | - | | | |
| • SBIR/STTR Transfer | -0.839 | -0.939 | | | |
| • Other Adjustments | - | - | 10.000 | - | 10.000 |

| Congressional Add Details ($ in Millions, and Includes General Reductions) | FY 2013 | FY 2014 |
|---|---|---|
| **Project:** S100: *SOF Technology Development* | | |
| Congressional Add: *Unfunded Requirement - Congressional Add was reduced by sequestration $1.046 million.* | 11.806 | - |
| Congressional Add Subtotals for Project: S100 | 11.806 | - |
| Congressional Add Totals for all Projects | 11.806 | - |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 2: *Applied Research* | **R-1 Program Element (Number/Name)**<br>PE 1160401BB / *SOF Technology Development* |

**Change Summary Explanation**

Funding:

FY 2013: Net increase of $8.776 million is due to sequestration reductions (-$3.363 million), congressional rescissions (-$0.055 million), congressional add ($12.852 million), reprogramming to the Shark Bite - Wound Stasis Program ($0.181 million), and transfer of funds to Small Business Innovative Research Program (-$0.839 million).

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

FY 2014: Decrease of $0.939 million is due to transfer of funds to Small Business Innovative Research Program/Small Business Technology Transfer Program.

FY 2015: Increase of $10.000 million develops technologies for increased investment in core technologies of interest to the SOF warfighter.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 2 | R-1 Program Element (Number/Name)<br>PE 1160401BB / *SOF Technology Development* | Project (Number/Name)<br>S100 / *SOF Technology Development* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S100: *SOF Technology Development* | 336.051 | 37.515 | 28.307 | 39.750 | - | 39.750 | 37.789 | 38.334 | 33.889 | 34.450 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

• The following technology activity was added by Congress in FY 2013:

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 2 | **R-1 Program Element (Number/Name)**<br>PE 1160401BB / *SOF Technology Development* | **Project (Number/Name)**<br>S100 / *SOF Technology Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continued 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. Advanced technologies for combat medical equipment and tactics; sensor and processing improvements; improved interfaces and displays; and secure communications. Continued pursuit of methods to reduce operator load and provide advanced protection. Developed technologies for improved and widened window of target engagement (escalation of force); pursued enhancements to technologies that can aid in detection of enemy intentions and movement; and continued development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transferred successful projects into programs of record.<br>***FY 2014 Plans:***<br>Continue ongoing technology development sub-projects in areas such as, but not limited to: reduce signature technologies; advance lightweight armor and materials; long duration small form factor power supplies; and alternative fuel power systems. 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 provides 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 continues development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfer successful projects into programs of record.<br>***FY 2015 Plans:***<br>Continues ongoing technology development sub-projects in areas such as, but not limited to: reduced signature technologies; advanced lightweight armor and materials; long duration small form factor power supplies; and alternative fuel power systems. Advances technologies for combat medical equipment and tactics; sensor and processing improvements; improves interfaces and displays; and secure communications. Continues pursuit of methods to reduce operator load and provides advanced protection. Develops technologies for improved and widened window of target engagement (escalation of force); pursues enhancements to technologies that can aid in detection of enemy intentions and movement; and continues development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfers successful projects into programs of record. Continues the integration of critical technologies focused on providing the dismounted special operator leap-ahead capabilities via innovative collaborative processes. Focus is on delivering prototype system for soldier protection and augmentation and continues development of situational awareness and command/control systems. | | | |
| ***Title:*** Tagging, Tracking, and Locating Technologies (TTL)<br>***FY 2013 Accomplishments:***<br>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 projects linked | 12.837 | 14.165 | 14.896 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 2 | **R-1 Program Element (Number/Name)**<br>PE 1160401BB / *SOF Technology Development* | **Project (Number/Name)**<br>S100 / *SOF Technology Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA).<br>***FY 2014 Plans:***<br>Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continue projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiate projects linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL QL-CBA.<br>***FY 2015 Plans:***<br>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 QL-CBA. | | | |
| ***Title:*** Classified<br>***FY 2013 Accomplishments:***<br>Details provided under separate cover.<br>***FY 2014 Plans:***<br>Details provided under separate cover.<br>***FY 2015 Plans:***<br>Details provided under separate cover. | 1.909 | 2.114 | 2.230 |
| **Accomplishments/Planned Programs Subtotals** | 25.709 | 28.307 | 39.750 |

| | FY 2013 | FY 2014 |
|---|---|---|
| ***Congressional Add:*** Unfunded Requirement - Congressional Add was reduced by sequestration $1.046 million.<br>***FY 2013 Accomplishments:*** Increased development of small unit dominance capabilities addressing highest priority unfunded requirements. Began assessing the integration of critical technologies focused on providing the dismounted special operator leap ahead capabilities via innovative collaborative processes. Initial focus is on revolutionary technical advancement in warfighter protection and augmentation to maximize kinetic potential and minimize the risk to SOF's direct assaulters. | 11.806 | - |
| **Congressional Adds Subtotals** | 11.806 | - |

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

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 2 | **R-1 Program Element (Number/Name)**<br>PE 1160401BB / *SOF Technology Development* | **Project (Number/Name)**<br>S100 / *SOF Technology Development* |

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

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 1,005.792 | 39.469 | 45.306 | 57.622 | - | 57.622 | 56.177 | 56.311 | 65.623 | 66.662 | Continuing | Continuing |
| S200: *Advanced Technology Development* | 1,005.792 | 39.469 | 39.576 | 39.515 | - | 39.515 | 43.482 | 43.328 | 46.654 | 47.340 | Continuing | Continuing |
| SF101: *Engineering Analysis* | 0.000 | - | 0.847 | 12.978 | - | 12.978 | 7.511 | 7.688 | 13.563 | 13.819 | Continuing | Continuing |
| S225: *Information and Broadcast Systems Adv Tech* | 0.000 | - | 4.883 | 5.129 | - | 5.129 | 5.184 | 5.295 | 5.406 | 5.503 | Continuing | Continuing |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

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

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* |

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 45.317 | 46.809 | 47.630 | - | 47.630 |
| Current President's Budget | 39.469 | 45.306 | 57.622 | - | 57.622 |
| Total Adjustments | -5.848 | -1.503 | 9.992 | - | 9.992 |
| • Congressional General Reductions | -3.853 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.060 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -0.562 | - | | | |
| • SBIR/STTR Transfer | -1.373 | -1.503 | | | |
| • Other Adjustments | - | - | 9.992 | - | 9.992 |

**Change Summary Explanation**

Funding:

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

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

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

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

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 3 | R-1 Program Element (Number/Name)<br>PE 1160402BB / *SOF Advanced Technology Development* | Project (Number/Name)<br>S200 / *Advanced Technology Development* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S200: *Advanced Technology Development* | 1,005.792 | 39.469 | 39.576 | 39.515 | - | 39.515 | 43.482 | 43.328 | 46.654 | 47.340 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

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

• Special Technology Experimentation Sub-Project. This sub-project conducts a variety of tactical network test bed venues in collaboration with Department Of Defense (DoD) activities.

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

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 3 | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* | **Project (Number/Name)**<br>S200 / *Advanced Technology Development* |

• Signature Management Technology Demonstrator (details provided under separate cover).

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Rapid Exploitation of Innovative Technology (REITS) for SOF Sub-Project<br><br>***FY 2013 Accomplishments:***<br>Continued 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. | 5.438 | - | - |
| ***Title:*** Special Technology Experimentation Sub-Project<br><br>***FY 2013 Accomplishments:***<br>Conducted field experimentations at various venues to facilitate technology insertion. | 1.242 | - | - |
| ***Title:*** SOF Special Technology Sub-Project<br><br>***FY 2013 Accomplishments:***<br>Continued to develop and insert technology into existing programs. 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 reduced the load of the operator. Initiated development of technologies supporting undersea mobility; developed ground mobility solutions for improved endurance and survivability. Evaluated and developed sensors across the electromagnetic spectrum to meet operational requirements. Based upon agreed technology maturity metrics, transferred successful projects into programs of record.<br><br>***FY 2014 Plans:***<br>Continue to develop and insert technology into existing programs. 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. Initiate development of technologies supporting undersea mobility; develop ground mobility solutions for improved endurance and survivability. Evaluate and develop sensors across the electromagnetic spectrum to meet operational requirements. Based upon agreed technology maturity metrics, transfer successful projects into programs of record, and conduct field experimentations at various venues to facilitate technology insertion.<br><br>***FY 2015 Plans:***<br>Continues to develop and insert technology into existing programs. Technologies include, but are not limited to reduced signature profiles; improved weapons, communications, command, and control systems, sensors, and situational awareness tools; lightweight armor and materials; alternative power systems; eco-friendly sustainable energy devices; long duration, reduced | 9.531 | 12.371 | 20.018 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 3 | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* | **Project (Number/Name)**<br>S200 / *Advanced Technology Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| size, high output power supplies; and technologies that reduce the load of the operator. Continues development of technologies supporting undersea and ground mobility. 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, and conduct field experimentations at various venues to facilitate technology insertion. Continues the integration of critical technologies focused on providing the dismounted special operator leap ahead capabilities via innovative collaborative processes. Begin initial effort for field prototype system incorporating technologies likely to transition to fielded systems. | | | |
| ***Title:*** Tagging, Tracking, and Locating Technologies (TTL) Sub-Project<br>***FY 2013 Accomplishments:***<br>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).<br>***FY 2014 Plans:***<br>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 QL-CBA.<br>***FY 2015 Plans:***<br>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 QL-CBA. | 15.929 | 12.721 | 13.852 |
| ***Title:*** National to Theater Transition<br>***FY 2013 Accomplishments:***<br>Conducted additional testing and evaluation required on various equipment items being transitioned to the SOF Theater Forces.<br>***FY 2014 Plans:***<br>Conduct additional testing and evaluation required on various equipment items being transitioned to the SOF Theater Forces. Starting in FY15 this program has moved to the engineering analysis RDT&E project. | 0.970 | 1.988 | - |
| ***Title:*** Classified Sub-Project<br>***FY 2013 Accomplishments:***<br>Details provided under separate cover.<br>***FY 2014 Plans:*** | 1.828 | 2.043 | 5.645 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 3 | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* | **Project (Number/Name)**<br>S200 / *Advanced Technology Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Details provided under separate cover.<br>***FY 2015 Plans:***<br>Details provided under separate cover. | | | |
| ***Title:*** Special Communications Field Segment - Enterprise (SPCOM)<br>***FY 2013 Accomplishments:***<br>Starting in FY 2014 SPCOM will be executed in Program Element 1160431BB. Began development of transport and field segment devices for a special communications enterprise, as well as the development of means and methods (tradecraft) to provide near-term impact to operators. | 4.531 | - | - |
| ***Title:*** Signature Management Technology Demonstrator<br>***FY 2014 Plans:***<br>Details provided under separate cover. | - | 10.453 | - |
| **Accomplishments/Planned Programs Subtotals** | 39.469 | 39.576 | 39.515 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 3 | R-1 Program Element (Number/Name)<br>PE 1160402BB / *SOF Advanced Technology Development* | Project (Number/Name)<br>SF101 / *Engineering Analysis* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF101: *Engineering Analysis* | - | - | 0.847 | 12.978 | - | 12.978 | 7.511 | 7.688 | 13.563 | 13.819 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Engineering Analysis | - | 0.847 | 12.978 |
| ***FY 2014 Plans:***<br>Continue to perform engineering studies, demonstrations, and analyses for SOF platforms, UAV payload sensors and soldier system unique equipment and missions. | | | |
| ***FY 2015 Plans:***<br>Continues to perform engineering studies, demonstrations, and analyses for SOF platforms, UAV payload sensors and soldier system unique equipment and missions. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 0.847 | 12.978 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 3 | R-1 Program Element (Number/Name)<br>PE 1160402BB / *SOF Advanced Technology Development* | Project (Number/Name)<br>S225 / *Information and Broadcast Systems Adv Tech* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S225: *Information and Broadcast Systems Adv Tech* | - | - | 4.883 | 5.129 | - | 5.129 | 5.184 | 5.295 | 5.406 | 5.503 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by Advance Technology Demonstrations and Joint Capability Technology Demonstrations to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation and frequency modulation radio transmitters and antenna; television transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies Capable of long-loiter MISO broadcast and delivery in denied and permissive environment; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 3 | **R-1 Program Element (Number/Name)**<br>PE 1160402BB / *SOF Advanced Technology Development* | **Project (Number/Name)**<br>S225 / *Information and Broadcast Systems Adv Tech* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continues to develop and insert technology into existing programs. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 4.883 | 5.129 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160422BB / *Aviation Engineering Analysis* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 9.018 | 0.635 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| SF101: *Aviation Engineering Analysis* | 9.018 | 0.635 | - | - | - | - | - | - | - | - | Continuing | Continuing |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

Funding:

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

Schedule: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160422BB *I Aviation Engineering Analysis* |

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 3 | R-1 Program Element (Number/Name)<br>PE 1160422BB / *Aviation Engineering Analysis* | Project (Number/Name)<br>SF101 / *Aviation Engineering Analysis* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF101: *Aviation Engineering Analysis* | 9.018 | 0.635 | - | - | - | - | - | - | - | - | Continuing | Continuing |

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

**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. This project also conducts risk reduction studies, analyses, and demonstrations to support emerging, time critical weapons and sensor enhancements.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Aviation Engineering Analysis | 0.635 | - | - |
| ***FY 2013 Accomplishments:***<br>Performed engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions. | | | |
| **Accomplishments/Planned Programs Subtotals** | 0.635 | - | - |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160472BB / *SOF Information and Broadcast Systems Advanced Technology* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 18.893 | 4.442 | - | - | - | - | - | - | - | - | - | 23.335 |
| S225: *SOF Information and Broadcast Systems Adv Tech* | 18.893 | 4.442 | - | - | - | - | - | - | - | - | - | 23.335 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 4.959 | - | - | - | - |
| Current President's Budget | 4.442 | - | - | - | - |
| Total Adjustments | -0.517 | - | - | - | - |
| • Congressional General Reductions | -0.358 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.007 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.152 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 1160472BB *I SOF Information and Broadcast Systems Advanced Technology* |

FY 2013: Decrease of $0.517 million is due to sequestration reductions (-$0.358 million), a congressional rescission reduction (-$0.007 million), and a transfer of funds to Small Business Innovative Research (-$0.152 million).

Sequestration Impacts: The sequestration decrease required project re-scope and negotiation.

FY 2014: None.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 3 | R-1 Program Element (Number/Name)<br>PE 1160472BB / *SOF Information and Broadcast Systems Advanced Technology* | Project (Number/Name)<br>S225 / *SOF Information and Broadcast Systems Adv Tech* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S225: *SOF Information and Broadcast Systems Adv Tech* | 18.893 | 4.442 | - | - | - | - | - | - | - | - | - | 23.335 |

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

**A. Mission Description and Budget Item Justification**

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

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by Advanced Technology Demonstrations (ATDs) and Joint Capability Technology Demonstrations (JCTDs) to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation and frequency modulation radio transmitters and antenna; television transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies capable of disseminating MISO products to reach target audiences across a wide variety of media into denied areas; technologies capable of unmanned, long-loiter MISO broadcast and delivery in denied and permissive environments; and technologies that automate in a collaborative environment accomplishing the seven phase MISO process (Planning, Targeting Audience Analysis, Series Development, Product Development and Design, Approval, Production/Distribution/Dissemination, and Measures of Effectiveness) through integrated capabilities.

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 3 | **R-1 Program Element (Number/Name)**<br>PE 1160472BB / *SOF Information and Broadcast Systems Advanced Technology* | **Project (Number/Name)**<br>S225 / *SOF Information and Broadcast Systems Adv Tech* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continued to transition previously developed technologies to programs of record. | | | |
| **Accomplishments/Planned Programs Subtotals** | 4.442 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Military Information Support Operations* | 25.188 | - | - | - | - | - | - | - | - | - | 25.188 |

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0304210BB / *Special Applications for Contingencies* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 199.935 | 15.172 | 15.150 | 19.294 | - | 19.294 | 19.601 | 20.207 | 20.879 | 20.850 | Continuing | Continuing |
| 9999: *Special Applications for Contingencies* | 199.935 | 15.172 | 15.150 | 19.294 | - | 19.294 | 19.601 | 20.207 | 20.879 | 20.850 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

Funding:

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

Sequestration Impacts: Re-prioritized efforts.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0304210BB / *Special Applications for Contingencies* |

FY 2014: Decrease of $2.202 million is due to a congressional reduction of -$1.700 million and a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer program (-$0.502 million).

FY 2015: Increase of $1.649 million is to expedite the development of advanced sensors, payloads and ancillary equipment..

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 0304210BB / *Special Applications for Contingencies* | Project (Number/Name)<br>9999 / *Special Applications for Contingencies* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9999: *Special Applications for Contingencies* | 199.935 | 15.172 | 15.150 | 19.294 | - | 19.294 | 19.601 | 20.207 | 20.879 | 20.850 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**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 sets.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Special Applications for Contingencies (SAFC) | 15.172 | 15.150 | 19.294 |
| ***FY 2013 Accomplishments:***<br>Continued evaluation unique sensor technologies, persistent stare and quick reaction systems. Developed a deliverable STUAS payload to fill critical capability gaps. | | | |
| ***FY 2014 Plans:***<br>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 2015 Plans:***<br>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** | 15.172 | 15.150 | 19.294 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0304210BB / *Special Applications for Contingencies* | **Project (Number/Name)**<br>9999 / *Special Applications for Contingencies* | |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Small Tactical Unmanned Aerial Systems* | - | 8.166 | 1.500 | - | 1.500 | 1.527 | 1.554 | 1.582 | 1.611 | Continuing | Continuing |

**Remarks**

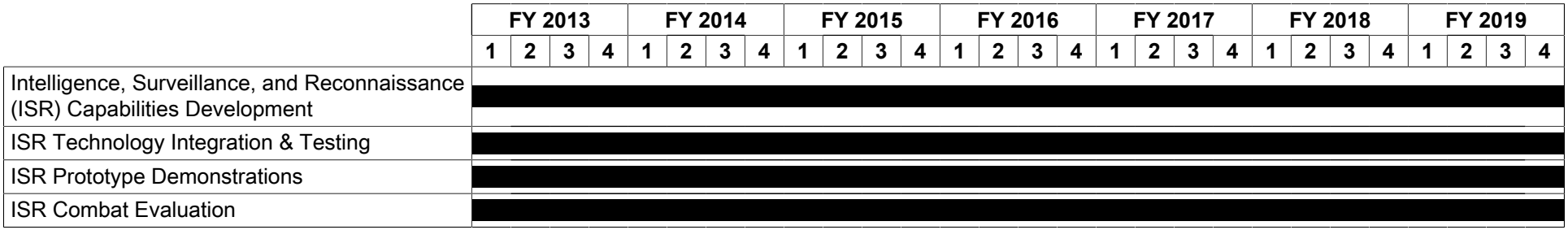
**D. Acquisition Strategy**

SAFC acquisition strategy is evolutionary and spiral-based for technology insertion and low volume procurement. As a non-standard DoD acquisition program, it allows for maximum flexibility to respond to quickly emerging, short lead time, contingency based requirements.

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0304210BB / *Special Applications for Contingencies* | **Project (Number/Name)**<br>9999 / *Special Applications for Contingencies* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0304210BB / *Special Applications for Contingencies* | **Project (Number/Name)**<br>9999 / *Special Applications for Contingencies* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development | 1 | 2013 | 4 | 2019 |
| ISR Technology Integration & Testing | 1 | 2013 | 4 | 2019 |
| ISR Prototype Demonstrations | 1 | 2013 | 4 | 2019 |
| ISR Combat Evaluation | 1 | 2013 | 4 | 2019 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 13.969 | 7.083 | 5.195 | 5.286 | - | 5.286 | 5.340 | 5.449 | 5.564 | 6.413 | Continuing | Continuing |
| S400A: *Distributed Common Ground/Surface Systems* | 13.969 | 7.083 | 5.195 | 5.286 | - | 5.286 | 5.340 | 5.449 | 5.564 | 6.413 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 7.114 | 5.195 | 5.286 | - | 5.286 |
| Current President's Budget | 7.083 | 5.195 | 5.286 | - | 5.286 |
| Total Adjustments | -0.031 | - | - | - | - |
| • Congressional General Reductions | -0.621 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.010 | - | | | |
| • Congressional Adds | 0.600 | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |

| Congressional Add Details ($ in Millions, and Includes General Reductions) | FY 2013 | FY 2014 |
|---|---|---|
| **Project:** S400A: *Distributed Common Ground/Surface Systems* | | |
| Congressional Add: *DCGS-SOF High Definition-Full Motion Video Quality of Service (HD-FMV QoS)* | 0.600 | - |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* |

| Congressional Add Details ($ in Millions, and Includes General Reductions) | FY 2013 | FY 2014 |
|---|---|---|
| Congressional Add Subtotals for Project: S400A | 0.600 | - |
| Congressional Add Totals for all Projects | 0.600 | - |

**Change Summary Explanation**

Funding:

FY 2013: Net decrease of $0.031 million is due to sequestration reductions (-$0.621 million), congressional rescissions (-$0.010 million), and congressional add ($0.600 million).

Sequestration Impacts: Delayed integration and test of DCGS-SOF new tools, data sources/stores and services for backend Command, Control, Communications, and Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) PED framework used to support 38.8 Intelligence, Surveillance, and Reconnaissance (ISR) orbits provided by SOF and Services and 24 PED lines provided by SOF. Specifically, delayed analyst access to and exploitation of 22 SOF enterprise data stores by 6 months.

FY 2014: None.

FY 2015: None.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* | Project (Number/Name)<br>S400A / *Distributed Common Ground/ Surface Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S400A: *Distributed Common Ground/Surface Systems* | 13.969 | 7.083 | 5.195 | 5.286 | - | 5.286 | 5.340 | 5.449 | 5.564 | 6.413 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the Military intelligence Program (MIP) that provides for the identification, development, and testing of 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 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** DCGS | 6.483 | 5.195 | 5.286 |
| ***FY 2013 Accomplishments:***<br>Integrated emerging technologies and capabilities for all source information fusion and initial development and integration of technology to enable disconnected operations into the DCGS-SOF baseline, commenced test and evaluation of these technologies into this baseline, and conducted DCGS-SOF limited objective events and Enterprise Challenge demonstrations. | | | |
| ***FY 2014 Plans:***<br>Continue to integrate emerging technologies and capabilities for all source information fusion and initial integration of technology to enable disconnected operations into the DCGS-SOF baseline, continue test and evaluation of these technologies into this baseline, and conduct DCGS-SOF limited objective events and Enterprise Challenge demonstrations. | | | |
| ***FY 2015 Plans:***<br>Continues to integrate emerging technologies and capabilities for all source information fusion and continues integration of technology to enable disconnected operations into the DCGS-SOF baseline, continues test and evaluation of these technologies into this baseline, and conducts DCGS-SOF limited objective events and Enterprise Challenge demonstrations. | | | |
| **Accomplishments/Planned Programs Subtotals** | 6.483 | 5.195 | 5.286 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* | **Project (Number/Name)**<br>S400A / *Distributed Common Ground/ Surface Systems* |

| | FY 2013 | FY 2014 |
|---|---|---|
| ***Congressional Add:*** DCGS-SOF High Definition-Full Motion Video Quality of Service (HD-FMV QoS) | 0.600 | - |
| ***FY 2013 Accomplishments:*** Initiated HD-FMV QoS testing and design improvement recommendation efforts for an enterprise-level HD-FMV distribution, storage, and analysis architecture for DCGS-SOF. Findings will be shared with OUSD(I), National Geo-spatial Intelligence Agency (NGA) and counterpart Service Program Management offices. | | |
| **Congressional Adds Subtotals** | 0.600 | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Distributed Common Ground/Surface System* | 14.704 | 14.906 | 17.323 | - | 17.323 | 11.611 | 13.735 | 10.781 | 10.097 | Continuing | Continuing |

**Remarks**

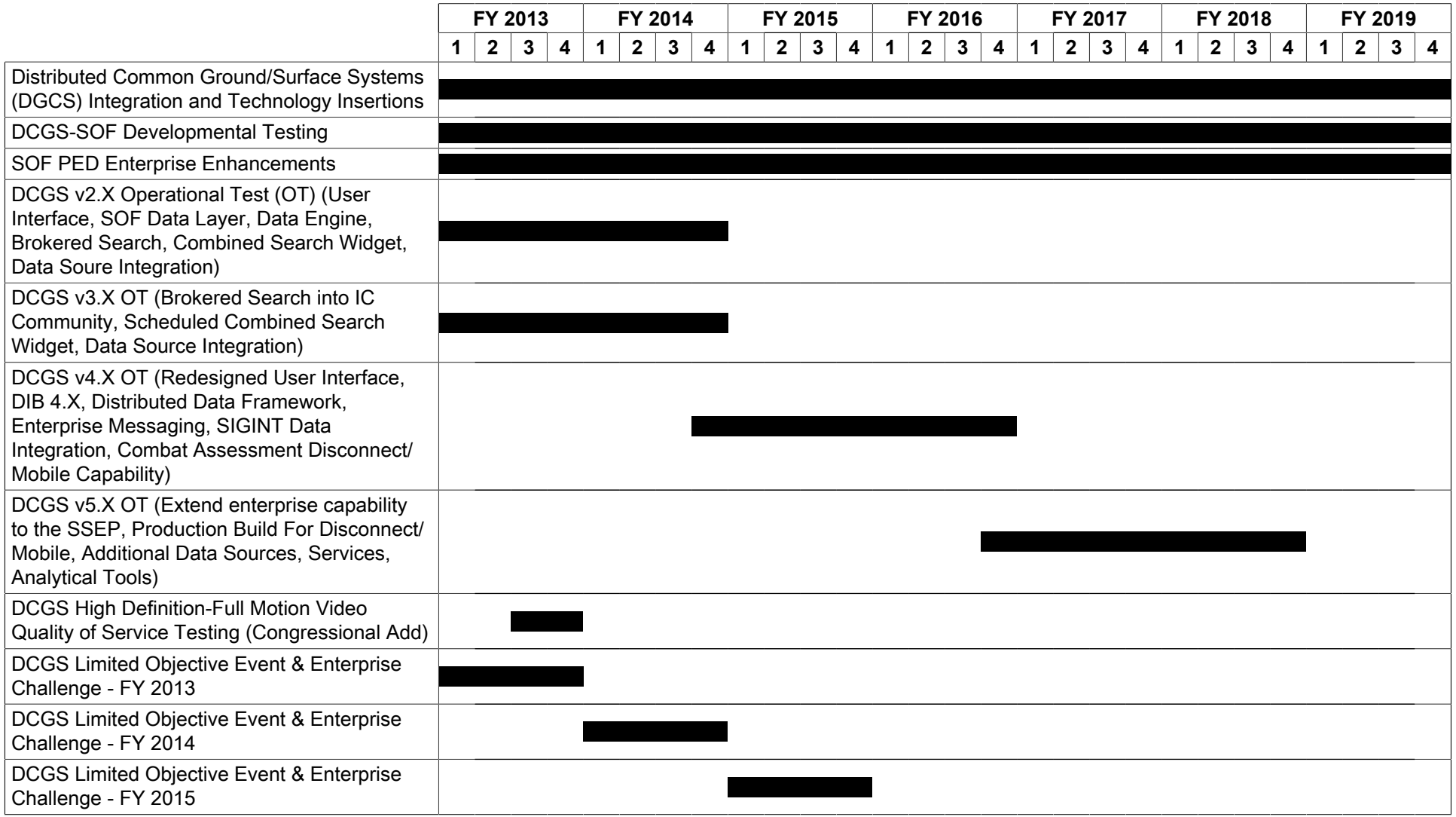
**D. Acquisition Strategy**

• DCGS-SOF will partner within DoD and with other government agencies to integrate mature technologies into the SOF information enterprise and enable more agile access to and sharing of data and services to meet SOF-peculiar documented requirements. The technology will allow for seamless integration with DoD, interagency, and coalition ISR tactical PED systems. The DCGS-SOF program office employs an agile development process with capability insertions into the development baseline for assessment and future deployment into the operational baseline. All development requirements are prioritized through the DCGS Requirements Working Group (DRWG) chaired by J2. Once approved the requirements are evaluated and scheduled by engineering. Using this methodology allows capabilities to be inserted in a fast and agile manner based on user requirements and priorities. All evolutionary technology insertions (ETIs) in the R-4 schedule are based on current program office projections. If requirement priorities change based on the DRWG, the ETI and version capabilities identified may change.

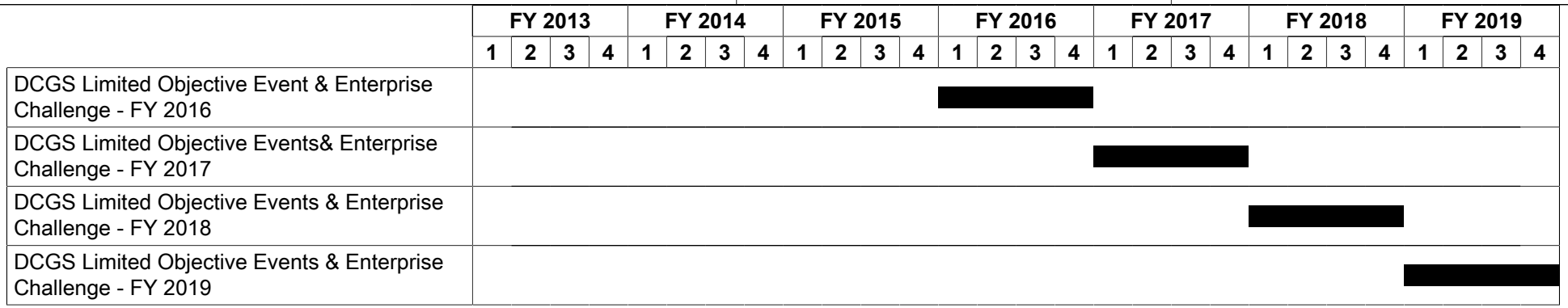
**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* | **Project (Number/Name)**<br>S400A / *Distributed Common Ground/ Surface Systems* |



| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* | **Project (Number/Name)**<br>S400A / *Distributed Common Ground/ Surface Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305208BB / *Distributed Common Ground/Surface Systems* | **Project (Number/Name)**<br>S400A / *Distributed Common Ground/ Surface Systems* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| Distributed Common Ground/Surface Systems (DGCS) Integration and Technology Insertions | 1 | 2013 | 4 | 2019 |
| DCGS-SOF Developmental Testing | 1 | 2013 | 4 | 2019 |
| SOF PED Enterprise Enhancements | 1 | 2013 | 4 | 2019 |
| DCGS v2.X Operational Test (OT) (User Interface, SOF Data Layer, Data Engine, Brokered Search, Combined Search Widget, Data Soure Integration) | 1 | 2013 | 4 | 2014 |
| DCGS v3.X OT (Brokered Search into IC Community, Scheduled Combined Search Widget, Data Source Integration) | 1 | 2013 | 4 | 2014 |
| DCGS v4.X OT (Redesigned User Interface, DIB 4.X, Distributed Data Framework, Enterprise Messaging, SIGINT Data Integration, Combat Assessment Disconnect/Mobile Capability) | 4 | 2014 | 4 | 2016 |
| DCGS v5.X OT (Extend enterprise capability to the SSEP, Production Build For Disconnect/Mobile, Additional Data Sources, Services, Analytical Tools) | 4 | 2016 | 4 | 2018 |
| DCGS High Definition-Full Motion Video Quality of Service Testing (Congressional Add) | 3 | 2013 | 4 | 2013 |
| DCGS Limited Objective Event & Enterprise Challenge - FY 2013 | 1 | 2013 | 4 | 2013 |
| DCGS Limited Objective Event & Enterprise Challenge - FY 2014 | 1 | 2014 | 4 | 2014 |
| DCGS Limited Objective Event & Enterprise Challenge - FY 2015 | 1 | 2015 | 4 | 2015 |
| DCGS Limited Objective Event & Enterprise Challenge - FY 2016 | 1 | 2016 | 4 | 2016 |
| DCGS Limited Objective Events& Enterprise Challenge - FY 2017 | 1 | 2017 | 4 | 2017 |
| DCGS Limited Objective Events & Enterprise Challenge - FY 2018 | 1 | 2018 | 4 | 2018 |
| DCGS Limited Objective Events & Enterprise Challenge - FY 2019 | 1 | 2019 | 4 | 2019 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0305219BB / *MQ-1 Unmanned Aerial Vehicle (UAV)* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 31.964 | 1.123 | 0.641 | - | - | - | - | - | - | - | - | 33.728 |
| S400B: *MQ-1 Unmanned Aerial Vehicle (UAV)* | 31.964 | 1.123 | 0.641 | - | - | - | - | - | - | - | - | 33.728 |

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

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

Funding:

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

FY2014: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0305219BB *I MQ-1 Unmanned Aerial Vehicle (UAV)* |

FY2015: Decrease of -$2.781 million is due to a realignment to higher command priorities.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 0305219BB / *MQ-1 Unmanned Aerial Vehicle (UAV)* | Project (Number/Name)<br>S400B / *MQ-1 Unmanned Aerial Vehicle (UAV)* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S400B: *MQ-1 Unmanned Aerial Vehicle (UAV)* | 31.964 | 1.123 | 0.641 | - | - | - | - | - | - | - | - | 33.728 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the military intelligence program. This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits, mission payloads, weaponization, and modifications on MQ-1 UAVs, ground control stations, and training systems. As the supported combatant command, USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks. USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of ISR&T acquisition, and strike.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** MQ-1 Predator A UAV | 1.123 | 0.641 | - |
| ***FY 2013 Accomplishments:***<br>Developed, tested, and integrated SOF - unique mission kits, mission payloads, and modifications to include but not limited to High Definition Full Motion Video upgrades on MQ-1 UAVs and ground control stations. | | | |
| ***FY 2014 Plans:***<br>Develop, test, and integrate SOF - unique mission kits, mission payloads, weapons, and modifications on MQ-1 UAVs and ground control stations. | | | |
| **Accomplishments/Planned Programs Subtotals** | 1.123 | 0.641 | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/1108MQ1: *MQ-1 Unmanned Aerial Vehicle* | 24.658 | 2.122 | - | - | - | - | - | - | - | - | 26.780 |

**Remarks**

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305219BB / *MQ-1 Unmanned Aerial Vehicle (UAV)* | **Project (Number/Name)**<br>S400B / *MQ-1 Unmanned Aerial Vehicle (UAV)* |

**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305219BB / *MQ-1 Unmanned Aerial Vehicle (UAV)* | **Project (Number/Name)**<br>S400B / *MQ-1 Unmanned Aerial Vehicle (UAV)* |

| | FY 2013 | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| ***MQ-1 UAVs and Ground Control Stations*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development/Integration | [redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test & Evaluation/User Assessment | [redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 0305219BB / *MQ-1 Unmanned Aerial Vehicle (UAV)* | **Project (Number/Name)**<br>S400B / *MQ-1 Unmanned Aerial Vehicle (UAV)* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***MQ-1 UAVs and Ground Control Stations*** | | | | |
| Development/Integration | 2 | 2013 | 4 | 2014 |
| Test & Evaluation/User Assessment | 2 | 2013 | 4 | 2014 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 0305231BB / *MQ-8 UAV* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 0.000 | 4.599 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| S854: *MQ-8 UAV* | 0.000 | 4.599 | - | - | - | - | - | - | - | - | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the Military Intelligence Program. Details are provided under separate cover.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 5.000 | - | - | - | - |
| Current President's Budget | 4.599 | - | - | - | - |
| Total Adjustments | -0.401 | - | - | - | - |
| • Congressional General Reductions | -0.401 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |

**Change Summary Explanation**

Funding:

FY2013: Decrease of -$0.401 million is due to sequestration reductions.

FY2014: None.

FY2015: None.

Schedule: None.

Technical: None.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1105219BB / *MQ-9 Unmanned Aerial Vehicle* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 11.610 | 2.610 | 13.272 | 9.702 | - | 9.702 | 19.203 | 18.989 | 19.072 | 15.000 | Continuing | Continuing |
| S851: *MQ-9 Unmanned Aerial Vehicle* | 11.610 | 2.610 | 13.272 | 9.702 | - | 9.702 | 19.203 | 18.989 | 19.072 | 15.000 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits, mission payloads, weapons, and modifications on MQ-9 Unmanned Aerial Vehicles (UAVs), ground control stations, and training systems as a component of the Medium Altitude Long Endurance Tactical program. USSOCOM is designated as the DoD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations against terrorist networks. USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This program element addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target (ISR&T) Acquisition, and strike.

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

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1105219BB *I MQ-9 Unmanned Aerial Vehicle* |

FY2014: Net increase of $11.958 million congressional add to develop rapid emergent technology capability ($12.000 million) and a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs (-$0.042 million).

FY2015: Increase of $6.640 million will develop a rapid emergent technology capability.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1105219BB / *MQ-9 Unmanned Aerial Vehicle* | Project (Number/Name)<br>S851 / *MQ-9 Unmanned Aerial Vehicle* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S851: *MQ-9 Unmanned Aerial Vehicle* | 11.610 | 2.610 | 13.272 | 9.702 | - | 9.702 | 19.203 | 18.989 | 19.072 | 15.000 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** MQ-9 UAV | 2.610 | 13.272 | 9.702 |
| ***FY 2013 Accomplishments:***<br>Developed, tested, and integrated SOF - unique mission kits, mission payloads, weapons, and modifications to include but not limited to Extended Range and rapid emergent technology capabilities on MQ-9 UAVs and ground control stations. | | | |
| ***FY 2014 Plans:***<br>Develop, test, and integrate SOF unique mission kits, mission payloads, weapons and modifications on MQ-9 UAVs and ground control stations. | | | |
| ***FY 2015 Plans:***<br>Develop, test, and integrate SOF-unique mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, ground control stations, and training systems. | | | |
| **Accomplishments/Planned Programs Subtotals** | 2.610 | 13.272 | 9.702 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *MQ-9 Unmanned Aerial Vehicle* | 35.739 | 12.893 | 15.651 | - | 15.651 | 12.825 | 11.804 | 12.916 | 6.400 | Continuing | Continuing |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1105219BB / *MQ-9 Unmanned Aerial Vehicle* | **Project (Number/Name)**<br>S851 / *MQ-9 Unmanned Aerial Vehicle* |

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

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

**Remarks**

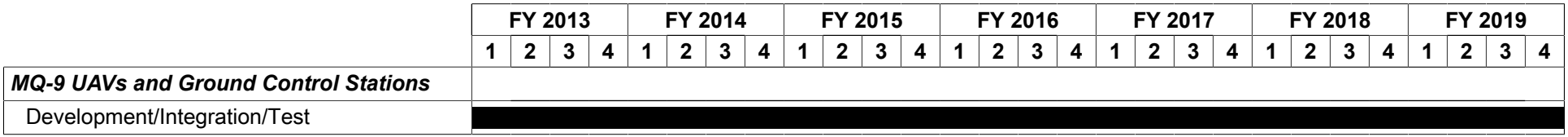
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1105219BB / *MQ-9 Unmanned Aerial Vehicle* | **Project (Number/Name)**<br>S851 / *MQ-9 Unmanned Aerial Vehicle* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1105219BB / *MQ-9 Unmanned Aerial Vehicle* | **Project (Number/Name)**<br>S851 / *MQ-9 Unmanned Aerial Vehicle* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***MQ-9 UAVs and Ground Control Stations*** | | | | |
| Development/Integration/Test | 1 | 2013 | 4 | 2019 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1105232BB / *RQ-11 UAV* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 1.380 | - | - | 0.259 | - | 0.259 | 0.263 | 0.268 | 0.272 | 0.277 | Continuing | Continuing |
| S853: *RQ-11 UAV* | 1.380 | - | - | 0.259 | - | 0.259 | 0.263 | 0.268 | 0.272 | 0.277 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

Funding:

FY 2013: None.

FY2014: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1105232BB / *RQ-11 UAV* |

FY2015: Increase of $0.259 million is to develop, test and integrate SOF-unique mission kits, mission pay loads and modifications to SUAS.

Schedule None.

Technical None.

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S853: *RQ-11 UAV* | 1.380 | - | - | 0.259 | - | 0.259 | 0.263 | 0.268 | 0.272 | 0.277 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This program element is a new start in FY 2015. This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) – unique mission kits, mission payloads, weapons, air vehicle enhancements, and modifications on the SUAS and related ground control stations. USSOCOM has been designated as the DoD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks and targets. USSOCOM requires the capability to find, fix, and finish time-sensitive high-value fixed and fleeting targets at the unit and team level without placing personnel and units in harm's way. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This line item addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Targeting (ISR&T) Capabilities for SOF.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Small Unmanned Aircraft Systems (SUAS) and Payloads | - | - | 0.259 |
| ***FY 2015 Plans:***<br>This is a FY 2015 new start. Develop, integrate, and test SOF-unique mission kits, mission payloads, and modifications to the SUAS and ground control station, to include but not limited to; improved capabilities for geo-location, collection of push-to-talk, communications, specialized tagging, tracking, and locating, and enhanced communications relay. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | - | 0.259 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/0809RQ11: *RQ-11 Unmanned Aerial Vehicle* | 1.898 | 0.850 | 6.397 | - | 6.397 | 10.695 | 9.514 | 4.540 | 4.317 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

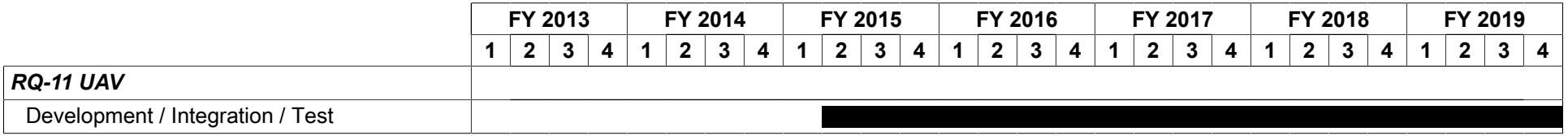
SUAS is an evolutionary acquisition program that delivers, integrates, and qualifies SOF unique mission kits, mission payloads, weapons, air vehicle enhancements, and ground control station upgrades. Contracting methods depend on the type of development effort. Competitive source selection will be conducted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

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1105232BB / *RQ-11 UAV* | **Project (Number/Name)**<br>S853 / *RQ-11 UAV* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1105232BB / *RQ-11 UAV* | **Project (Number/Name)**<br>S853 / *RQ-11 UAV* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***RQ-11 UAV*** | | | | |
| Development / Integration / Test | 2 | 2015 | 4 | 2019 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160279BB / *Small Business Innovative Research* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 151.492 | 10.995 | 10.446 | - | - | - | - | - | - | - | Continuing | Continuing |
| S050: *Small Business Innovative Research* | 151.492 | 10.995 | 9.147 | - | - | - | - | - | - | - | Continuing | Continuing |
| S051: *Small Business Technology Transfer* | - | - | 1.299 | - | - | - | - | - | - | - | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program element consists of a highly competitive three-phase award system that provides qualified small business concerns with the opportunity to propose high quality innovative ideas that meet specific research and development needs of USSOCOM. Small Business Innovative Research (SBIR) is a result of the Small Business Development Act of 1992. It was enacted by Congress in Public Law 97-219, reenacted by Public Law 99-443, and reauthorized by the SBIR Program Reauthorization Act of 2012. Starting in FY 1994, the SBIR program was refocused toward dual use and defense reinvestment efforts. Phase I projects evaluate the scientific technical merit and feasibility of an idea. Phase II projects expand the results of, and further pursue, the developments of Phase I. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. USSOCOM participates annually in the DoD Request for Proposal process. USSOCOM then awards its proposed SBIR projects. FY 2014 is the first year USSOCOM is participating in the Small Business Technology Transfer (STTR) program. The STTR goal is to expand public/private sector partnerships between small business and nonprofit U.S. research institutions.

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

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160279BB / *Small Business Innovative Research* |

FY 2013: Increase of $10.995 million is due to reprogramming from various program elements for the congressionally mandated Small Business Innovative Research Program.

FY 2014: Increase of $10.446 million is due to reprogramming from various program elements for the congressionally mandated Small Business Innovative Research ($9.147 million) and Small Business Technology Transfer ($1.299 million) programs.

Schedule: None.

Technical: None

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160279BB / *Small Business Innovative Research* | Project (Number/Name)<br>S050 / *Small Business Innovative Research* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S050: *Small Business Innovative Research* | 151.492 | 10.995 | 9.147 | - | - | - | - | - | - | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This program element consists of a highly competitive three-phase award system that provides qualified small business concerns with the opportunity to propose high quality innovative ideas that meet specific research and development needs of USSOCOM. Small Business Innovative Research (SBIR) is a result of the Small Business Development Act of 1992. It was enacted by Congress in Public Law 97-219, reenacted by Public Law 99-443, and reauthorized by the SBIR Program Reauthorization Act of 2012. Starting in FY 1994, the SBIR program was refocused toward dual use and defense reinvestment efforts. Phase I projects evaluate the scientific technical merit and feasibility of an idea. Phase II projects expand the results of, and further pursue, the developments of Phase I. Phase III is for commercialization of the results of Phase II and requires the use of private or non-SBIR federal funding. USSOCOM participates annually in the DoD Request for Proposal process. USSOCOM then awards its proposed SBIR projects.

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

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

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160279BB / *Small Business Innovative Research* | **Project (Number/Name)**<br>S050 / *Small Business Innovative Research* |

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

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160279BB / *Small Business Innovative Research* | Project (Number/Name)<br>S051 / *Small Business Technology Transfer* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S051: *Small Business Technology Transfer* | - | - | 1.299 | - | - | - | - | - | - | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

FY 2014 is the first year USSOCOM is participating in the Small Business Technology Transfer (STTR) program. STTR goal is the expand public/private sector partnerships between small business and nonprofit U.S. research institutions.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Small Business Technology Transfer (STTR) | - | 1.299 | - |
| ***FY 2014 Plans:***<br>Award contracts on mulitple efforts. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 1.299 | - |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 363.765 | 84.254 | 130.811 | 164.233 | - | 164.233 | 151.349 | 117.788 | 59.449 | 40.785 | Continuing | Continuing |
| SF100: *Aviation Systems Advanced Development* | 363.765 | 84.254 | 86.179 | 83.699 | - | 83.699 | 82.907 | 87.209 | 35.683 | 17.070 | Continuing | Continuing |
| SF200: *CV-22* | 0.000 | - | 2.817 | 0.182 | - | 0.182 | - | - | - | - | - | 2.999 |
| S750: *Mission Training and Preparation Systems* | 0.000 | - | 4.696 | 7.333 | - | 7.333 | 7.104 | 6.648 | 6.789 | 6.904 | Continuing | Continuing |
| S875: *AC/MC-130J* | 0.000 | - | 9.638 | 5.629 | - | 5.629 | 1.889 | 0.411 | 0.419 | - | Continuing | Continuing |
| D615: *Rotary Wing Aviation* | 0.000 | - | 27.481 | 67.390 | - | 67.390 | 59.449 | 23.520 | 16.558 | 16.811 | Continuing | Continuing |

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

**Note**

Beginning in FY 2014 Aviation Systems Program Element 1160403BB represents the approved project consolidation of Aviation Systems Advanced Development Program Element (PE) 1160403BB, SO CV-22 Development PE 1160421BB, Mission Training and Preparation Systems PE 1160427BB, AC/MC-130J PE 1160429BB and SOF Rotary Wing Aviation PE 1160482BB.

**A. Mission Description and Budget Item Justification**

Aviation Systems Advanced Development:
This project provides for the development, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; Low Probability of Intercept/Low Probability of Detection (LPI/LPD) terrain following/terrain avoidance radar; Defensive Countermeasures; Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM); Precision Strike Package (PSP) for AC-130W; AC-130H, AC-130W, and AC-130U Recapitalization, and other SOF airborne platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; near-real-time Intelligence Surveillance & Reconnaissance (ISR); data fusion; threat detection and avoidance; navigation, target detection, and identification technologies; weapons integration; digital broadcast capabilities; aerial refueling; and ISR payload technological improvements with size, weight, power and integration onto all SOF ISR platforms.

CV-22 Development:
The CV-22 is a SOF variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 project provides long range, high speed, infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. This is a capability not currently provided by other existing aircraft. The V-22 Joint Program Office is developing improved capabilities in block increments. The funding in this project supports these block increments as well as associated flight test support. The Block 10 increment was completed in FY 2007, and the Block 20 increment started in FY 2008. Block 10: Integrate and test Directional Infrared Countermeasures, a system that protects against infrared guided missiles; design, integrate and validate the Troop Commander Situational Awareness Station to

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, intelligence, surveillance and reconnaissance, weapons, avionics, survivability, maneuverability, mission deployment and improved reliability and maintainability of the CV platform.

Mission Training and Preparation Systems:
The Special Operations Mission Planning and Execution (SOMPE) project funds the definition, design, development, prototyping, integration, and testing of SOMPE systems to support mission planning and rehearsal required to meet SOF-unique mission requirements and correct deficiencies in current mission planning and rehearsal capabilities. 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 mission planning systems.

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

Rotary Wing Aviation:
This project develops SOF-unique modifications and upgrades to SOF rotary wing aircraft that operate in increasingly hostile environments. Rotary wing aircraft supported by this project include: MH-60M, MH-47G, and A/MH-6M. These aircraft provide aviation support to 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.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* |

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 97.267 | 156.561 | 123.687 | - | 123.687 |
| Current President's Budget | 84.254 | 130.811 | 164.233 | - | 164.233 |
| Total Adjustments | -13.013 | -25.750 | 40.546 | - | 40.546 |
| • Congressional General Reductions | -7.835 | - | | | |
| • Congressional Directed Reductions | - | -21.412 | | | |
| • Congressional Rescissions | -0.127 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -2.090 | - | | | |
| • SBIR/STTR Transfer | -2.961 | -4.338 | | | |
| • Other Adjustments | - | - | 40.546 | - | 40.546 |

**Change Summary Explanation**

Funding:

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

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

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

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160403BB / *Aviation Systems* | Project (Number/Name)<br>SF100 / *Aviation Systems Advanced Development* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF100: *Aviation Systems Advanced Development* | 363.765 | 84.254 | 86.179 | 83.699 | - | 83.699 | 82.907 | 87.209 | 35.683 | 17.070 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project provides for the investigation, evaluation, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; low probability of intercept/low probability of detection (LPI/LPD), terrain following/terrain avoidance (TF/TA) radar; Defensive Countermeasures (DCM) which includes Electronic Warfare – Radio Frequency Countermeasures (EW-RFCM); Precision Strike Package (PSP) for AC-130W, AC-130H replacement aircraft, and other SOF platforms; digital terrain elevation data and electronic order of battle; digital maps; Enhanced Situational Awareness (ESA); near-real-time intelligence to include data fusion, threat detection and avoidance; navigation, target detection and identification technologies; digital broadcast capability; aerial refueling; and ISR payload technological improvements with size, weight, power and integration onto all SOF ISR platforms.

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

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |

• PSP Large Caliber Gun: Supports systems engineering, analysis, development, integration, and test of a large caliber gun capability enhancement to the PSP installed on the AC-130 aircraft.

• C-130 TF Radar System: Supports development, integration and test of a TF/TA radar and on-board processor to provide a multi-mode terrain following capability on MC-130J aircraft.

• SOF Common (TF/TA (Silent Knight) Radar: Supports Engineering and Manufacturing Development, and developmental, qualification, and operational flight testing of a SOF common 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, MC-130 Combat Talon and CV-22 Tilt-Rotor aircraft.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SOF C-130 Avionics Modifications<br>***FY 2013 Accomplishments:***<br>Completed the Mission Computer Replacement. | 0.277 | - | - |
| ***Title:*** EC-130J Upgrades<br>***FY 2013 Accomplishments:***<br>Continued integration of SOF-unique implementation of the C-130J block cycle upgrade installed on the EC-130J Commando Solo aircraft.<br>***FY 2014 Plans:***<br>Continue integration of SOF-unique implementation of the C-130J block cycle upgrade installed on the EC-130J Commando Solo aircraft.<br>***FY 2015 Plans:***<br>Begins development of trial kit installation of C-130J block cycle upgrade. | 0.118 | 0.670 | 3.503 |
| ***Title:*** Enhanced Situational Awareness<br>***FY 2013 Accomplishments:***<br>Initiated risk reduction, development and integration of an ESA system on SOF C-130 aircraft.<br>***FY 2014 Plans:***<br>Continue risk reduction, development and integration of an ESA system on SOF C-130 aircraft.<br>***FY 2015 Plans:***<br>Begins flight test ESA system on SOF C-130 aircraft. | 1.682 | 0.881 | 0.182 |
| ***Title:*** EW – RFCM | - | 1.936 | 16.181 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***FY 2014 Plans:***<br>Initiate risk reduction activities and development efforts for an EW-RFCM system on AC/MC-130J aircraft.<br>***FY 2015 Plans:***<br>Supports contract award for development, integration and test activities to provide EW capability against RF threats for SOF AC/MC-130J aircraft. | | | |
| ***Title:*** PSP for SOF<br>***FY 2013 Accomplishments:***<br>Continued development, integration, test, and system improvement of the PSP on MC-130J aircraft.<br>***FY 2014 Plans:***<br>Continue development, integration, test, and system improvement of the PSP on SOF C-130s and other SOF aircraft.<br>***FY 2015 Plans:***<br>Continues development, integration, test, and system improvement of the PSP on SOF C-130s and other SOF aircraft. | 41.810 | 14.384 | 15.136 |
| ***Title:*** PSP Large Caliber Gun<br>***FY 2014 Plans:***<br>Develop, integrate and test large caliber gun capability upgrade of the PSP on AC-130J aircraft<br>***FY 2015 Plans:***<br>Continues development, integration and testing of large caliber gun capability upgrade of the PSP on AC-130 aircraft | - | 17.555 | 5.931 |
| ***Title:*** C-130 TF Radar System<br>***FY 2013 Accomplishments:***<br>Continued development and integration of the TF Radar System onto MC-130J aircraft.<br>***FY 2014 Plans:***<br>Continue development, integration and test of the TF Radar System on MC-130J aircraft. Support developmental flight testing and an Operational Utility Evaluation for the first software spiral providing initial TF Capabilities. Also support development, integration and test efforts for LPI TF capabilities on MC-130J aircraft as part of a second software spiral.<br>***FY 2015 Plans:***<br>Continues development, integration and test of the TF radar system on two MC-130J aircraft to accelerate MC-130J TF fielding and capability. | 18.382 | 28.804 | 32.642 |
| ***Title:*** SOF Common TF/TA (Silent Knight) Radar | 21.985 | 21.949 | 7.212 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***FY 2013 Accomplishments:***<br>Continued EMD of SOF Common TF/TA radar. Continued developmental flight testing. Received Milestone C approval and initiated Low Rate Initial Production contract.<br>***FY 2014 Plans:***<br>Continue EMD of SOF Common TF/TA radar. Completes development flight testing and performs qualification flight testing.<br>***FY 2015 Plans:***<br>Continues EMD of SOF Common TF/TA radar. Performs operational flight testing. | | | |
| ***Title:*** EC-130J Commando Solo<br>***FY 2015 Plans:***<br>FY 2015 New Start. Begins development, integration and testing of digital broadcast capabilities on the EC-130J Commando Solo aircraft. | - | - | 2.912 |
| **Accomplishments/Planned Programs Subtotals** | 84.254 | 86.179 | 83.699 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *C-130 Modifications* | 20.643 | 60.545 | 39.095 | - | 39.095 | 61.950 | 67.254 | 33.150 | 33.338 | Continuing | Continuing |
| • PROC2: *Precision Strike Package* | 67.362 | 93.520 | 145.929 | - | 145.929 | 223.351 | 245.749 | 251.450 | 255.045 | 539.347 | 1,821.753 |
| • PROC3: *Rotary Wing Upgrades and Sustainment* | 74.733 | 110.456 | 112.226 | - | 112.226 | 127.575 | 185.251 | 162.518 | 147.355 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

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

• EC-130J Upgrades: Operational Flight Program Block Cycle is being developed by the Air Force program office using existing development and production contracts.

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |

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

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

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

• C-130 TF Radar System: Awarded competitive EMD contract for development, integration and test in FY 2012. Executing incremental acquisition strategy with contractor flight testing FY 2014; USG DT&E FY 2015; OTE FY 2016 with IOC Q3 FY 2016.

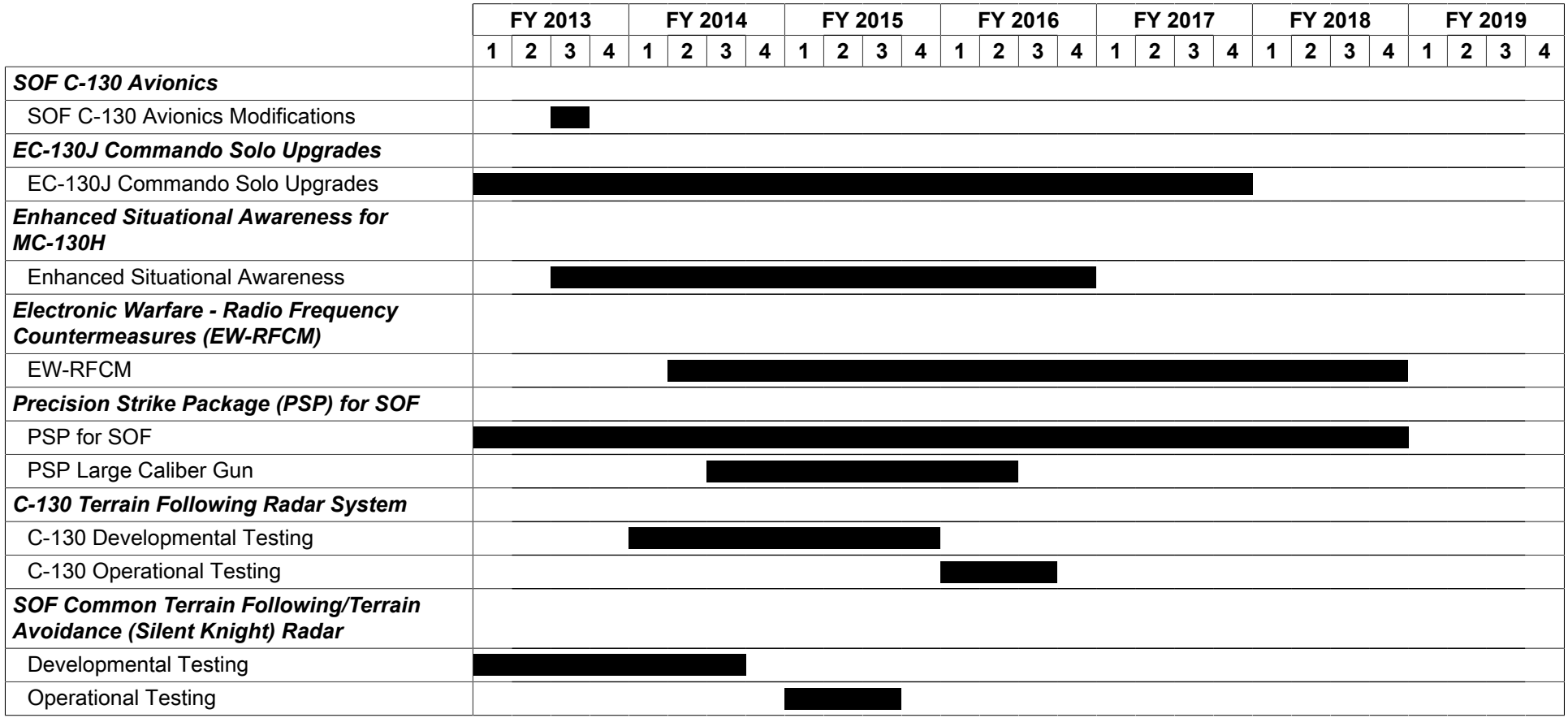
• SOF Common TF/TA (Silent Knight) Radar: Executing incremental acquisition strategy with the MH-47G as the lead platform. A competitive EMD contract with an option for six low-rate initial production (LRIP) units was awarded to Raytheon in FY 2007. MH-60M Group A design and integration effort was awarded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

• EC-130J Commando SOLO: Digital broadcast capabilities are being procured through an incremental acquisition strategy to incorporate and test readily available equipment into the EC-130J aircraft.

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF100 / *Aviation Systems Advanced Development* |

## Schedule Details

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160403BB / *Aviation Systems* | Project (Number/Name)<br>SF200 / *CV-22* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF200: *CV-22* | - | - | 2.817 | 0.182 | - | 0.182 | - | - | - | - | - | 2.999 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** CV-22 Aircraft Block 20 | - | 2.817 | 0.182 |
| ***FY 2014 Plans:***<br>Continue ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and developmental testing for aircraft block upgrades. | | | |
| ***FY 2015 Plans:***<br>Continue ESA development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities and developmental testing for aircraft block upgrades. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 2.817 | 0.182 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *CV-22 SOF Modification* | 126.021 | 108.599 | 25.578 | - | 25.578 | 19.703 | 16.123 | 13.226 | 13.480 | - | 1,696.207 |
| • PROC/V022A0: *Aircraft Procurement CV-22 (MYP)* | 309.220 | 230.798 | - | - | - | - | - | - | - | - | 4,272.414 |
| • RDT&E1/0401318F: *RDT&E, USAF* | 26.314 | 46.705 | 39.202 | - | 39.202 | 26.728 | 16.073 | 14.566 | 14.828 | 131.500 | 613.166 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF200 / *CV-22* |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • RDT&E/0604262N: *V-22 RDT&E, N BA-05* | 54.512 | 43.084 | 68.816 | - | 68.816 | 60.659 | 53.319 | 53.063 | - | 273.513 | 9,363.505 |

**Remarks**

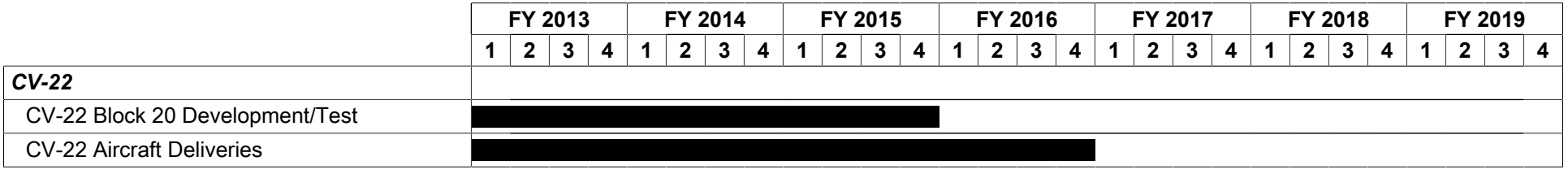
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF200 / *CV-22* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>SF200 / *CV-22* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***CV-22*** | | | | |
| CV-22 Block 20 Development/Test | 1 | 2013 | 4 | 2015 |
| CV-22 Aircraft Deliveries | 1 | 2013 | 4 | 2016 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160403BB / *Aviation Systems* | Project (Number/Name)<br>S750 / *Mission Training and Preparation Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S750: *Mission Training and Preparation Systems* | - | - | 4.696 | 7.333 | - | 7.333 | 7.104 | 6.648 | 6.789 | 6.904 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

Sub-projects include:

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| systems, and automated performance models and performance prediction software. Completes testing of mission planning, data transfer and performance software completing development. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 4.696 | 7.333 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *AC/MC-130J* | 26.701 | 50.300 | 65.130 | - | 65.130 | 68.730 | 70.916 | 165.144 | 185.672 | Continuing | Continuing |
| • PROC2: *C-130 MODIFICATIONS* | 20.643 | 60.545 | 39.095 | - | 39.095 | 61.950 | 67.254 | 33.150 | 33.338 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |

| | FY 2013 | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| ***Special Operations Mission Planning and Execution (SOMPE) Software*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Software Development | [redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Support | [redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test & Evaluation | [redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***Special Operations Mission Planning and Execution (SOMPE) Software*** | | | | |
| Software Development | 1 | 2013 | 1 | 2017 |
| Development Support | 1 | 2013 | 1 | 2017 |
| Test & Evaluation | 1 | 2013 | 1 | 2017 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160403BB / *Aviation Systems* | Project (Number/Name)<br>S875 / *AC/MC-130J* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S875: *AC/MC-130J* | - | - | 9.638 | 5.629 | - | 5.629 | 1.889 | 0.411 | 0.419 | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continues ESA integration and test. | | | |
| ***Title:*** AC-130J | - | 3.872 | 1.076 |
| ***FY 2014 Plans:***<br>Develop and test aircraft modification designs for PSP kit installation. | | | |
| ***FY 2015 Plans:***<br>Develops and tests aircraft modification designs for PSP kit installation. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 9.638 | 5.629 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *AC/MC-130J* | 26.701 | 50.300 | 65.130 | - | 65.130 | 68.730 | 70.916 | 165.144 | 185.672 | Continuing | Continuing |
| • PROC2: *Precision Strike Package* | 67.362 | 93.520 | 145.929 | - | 145.929 | 223.351 | 245.749 | 251.450 | 255.045 | 539.347 | 1,821.753 |

**Remarks**

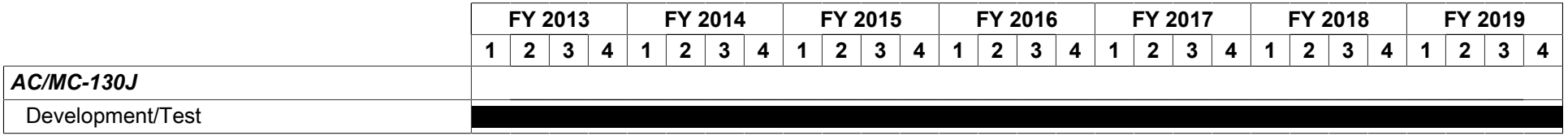
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***AC/MC-130J*** | | | | |
| Development/Test | 1 | 2013 | 4 | 2019 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160403BB / *Aviation Systems* | Project (Number/Name)<br>D615 / *Rotary Wing Aviation* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D615: *Rotary Wing Aviation* | - | - | 27.481 | 67.390 | - | 67.390 | 59.449 | 23.520 | 16.558 | 16.811 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

• A/MH-6M Block 3.0 Upgrade is necessary to restore structural, performance, and safety margins for the aircrews. An airframe structural modification will address recurring structural failures due to high intensity, high gross weight operations, and a decade of battle damage. A main/tail rotor drive train and engine control improvement efforts will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade Non-Developmental Item/Commercial Off-the-Shelf will replace obsolescent components and provide improved battlefield situational awareness to the aircrews and customers necessary to support time sensitive mission requirements. This upgrade is critical in keeping the A/MH-6M aircraft operational through FY 2020 and beyond, or until a suitable replacement aircraft is available. The non-recurring effort supports development, fabrication of test hardware, qualification of components and systems, and data items to support issuance of Government airworthiness releases for structural and software modifications.

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |

• Infrared Countermeasure (IRCM) program provides a low Space, Weight, and Power (SWaP) capability suitable for the A/MH-6 Mission Enhanced Little Bird (MELB). The IRCM program will develop, integrate, qualify, and test a complete lightweight IRCM system to include a missile warning system and countermeasure capability. The A/MH-6 is the only tactical aircraft in the U.S. Army inventory without protection from IR guided, and other advanced Man Portable Air Defense missiles.

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

• Mission Processor Upgrade (MPU) program provides for non-recurring engineering, systems engineering/testing, and future aircraft architecture studies that support the replacement and upgrade of the current mission and video processors for all Army Special Operations Aviation (ARSOA). Upgrading all internal processors increases the processing power to support critical functionality and emerging technologies that will be integrated into the Common Avionics Architecture System (CAAS). This MPU provides the processing and memory resources required to incorporate the following functions into the General Purpose Processing Unit (GPPU): (1) Global Air Traffic Management replaces ground-based navigation aids with a capability that meets the international requirement that all aircraft be compliant with digital and space-based navigation systems; (2) Situational Awareness for Safe Aircraft Recovery provides passive survivability for flight operations in all weather conditions by providing three-dimensional displays with flight path guidance to increase battle space awareness in zero-visibility conditions; (3) Cognitive Decision Aiding System fuses information on threat, route, weather, terrain, and friendly forces, instantaneously adjusting an aircraft's route to protect the flight crew in hazardous weather, low levels, and night conditions. This program is an FY 2015 new start.

• Next Generation Forward Looking Infrared (NGFLIR) program is a pre-planned product improvement that incorporates a multispectral sensor (Shortwave Infrared, Image Intensifying TV, and Color Day TV) into the existing Q2 Electro-Optical Sensor System. This will improve targeting, tracking, and aircrew situational awareness. This program also maximizes the service life of the Q2 sensor by mitigating obsolescence and increasing functionality on the light and heavy assault platforms within the ARSOA fleet. This program is an FY 2015 new start.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** A/MH-6M Block 3.0 Upgrade | - | 12.420 | 20.037 |
| ***FY 2014 Plans:***<br>Continue to development of cockpit upgrades, improved rotor systems, and upgrades to airframe. | | | |
| ***FY 2015 Plans:***<br>Continues development of cockpit upgrades, improved rotor systems, and upgrades to airframe. | | | |
| ***Title:*** MH-60 SOF Modernization Program | - | 1.211 | 13.500 |
| ***FY 2014 Plans:***<br>Begin flight and qualification testing for the MH-60M Block 1 upgrade. | | | |
| ***FY 2015 Plans:***<br>Continues flight and qualification testing for the MH-60M Block 1 upgrades. | | | |
| ***Title:*** DVE | - | 11.382 | 16.976 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***FY 2014 Plans:***<br>Continue development of DVE sensor solution.<br>***FY 2015 Plans:***<br>Continues development of DVE sensor solution. | | | |
| ***Title:*** FVL<br>***FY 2014 Plans:***<br>Begin to identify classes of FVL technology development most applicable to SOF Aviation platforms and participate in the Analysis of Alternatives conducted by the Joint FVL Program Office.<br>***FY 2015 Plans:***<br>Continues participation in the Joint Integrated Product Team (IPT) materiel solution analysis with a focus on injecting SOF requirements into the baseline planning and requirements documents that provides a minimum of SOF-Peculiar modifications. Focus will be on current fleet operations and support cost analysis, logistics analysis, and cost estimation methodology to include front end better buying power initiatives. | - | 0.968 | 1.299 |
| ***Title:*** IRCM<br>***FY 2014 Plans:***<br>Begin development, integration, and qualification testing of a missile warning and lightweight infrared countermeasure system for the A/MH-6 aircraft.<br>***FY 2015 Plans:***<br>Continues development, integration and qualification testing of missile warning and lightweight IRCM systems for the A/MH-6 aircraft. | - | 1.500 | 2.498 |
| ***Title:*** MH-47 Modifications and Upgrades<br>***FY 2015 Plans:***<br>Begins development of APAS and the Engine Barrier Filter for the MH-47G. | - | - | 7.000 |
| ***Title:*** MPU<br>***FY 2015 Plans:***<br>Begins development and testing of replacement mission and video processors for the Army Special Operations Aviation platforms. This program is an FY 2015 new start. | - | - | 3.000 |
| ***Title:*** NGFLIR<br>***FY 2015 Plans:*** | - | - | 3.080 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Begins development, integration and testing of the multi-spectral sensor into the Q2 Electro-Optical Sensor System (EOSS). This program is an FY 2015 new start. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 27.481 | 67.390 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC 1: *Rotary Wing Upgrades and Sustainment* | 74.733 | 110.456 | 112.226 | - | 112.226 | 127.575 | 185.251 | 162.518 | 147.355 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

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

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |

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

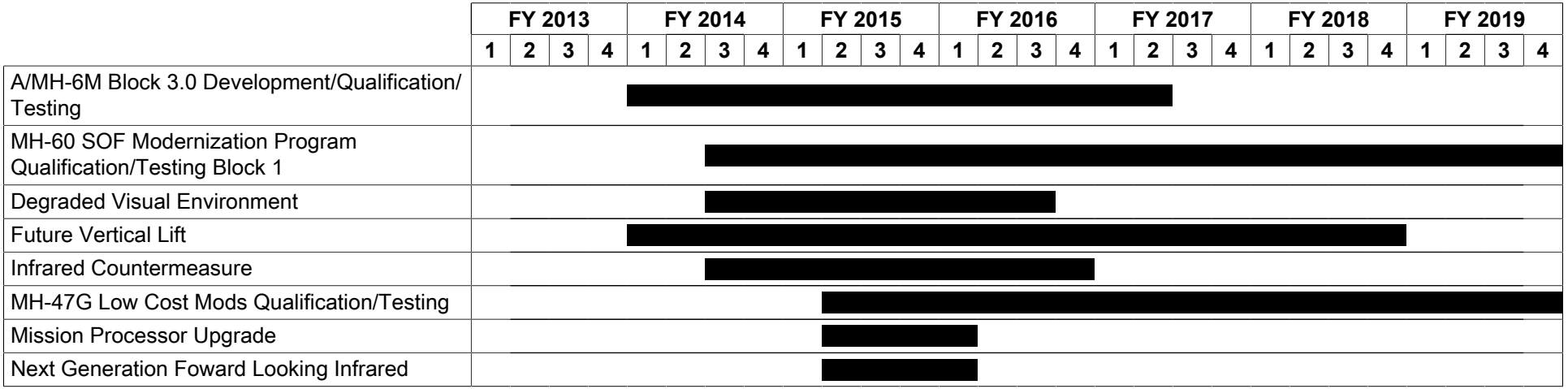
7. Mission Processor Upgrade (MPU) - The General Purpose Processing Unit (GPPU) non-recurring engineering (NRE) supports improvements to the video processing and Ethernet switch capabilities for Common Avionics Architecture System aircraft. The engineering and testing will be sole source to Rockwell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

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160403BB / *Aviation Systems* | **Project (Number/Name)**<br>D615 / *Rotary Wing Aviation* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| A/MH-6M Block 3.0 Development/Qualification/Testing | 1 | 2014 | 2 | 2017 |
| MH-60 SOF Modernization Program Qualification/Testing Block 1 | 3 | 2014 | 4 | 2019 |
| Degraded Visual Environment | 3 | 2014 | 3 | 2016 |
| Future Vertical Lift | 1 | 2014 | 4 | 2018 |
| Infrared Countermeasure | 3 | 2014 | 4 | 2016 |
| MH-47G Low Cost Mods Qualification/Testing | 2 | 2015 | 4 | 2019 |
| Mission Processor Upgrade | 2 | 2015 | 1 | 2016 |
| Next Generation Foward Looking Infrared | 2 | 2015 | 1 | 2016 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160404BB / *Special Operations Tactical Systems Development* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 22.982 | 0.701 | - | - | - | - | - | - | - | - | - | 23.683 |
| S710: *SO Tactical Systems (Automation)* | 22.982 | 0.701 | - | - | - | - | - | - | - | - | - | 23.683 |

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

**Note**

Beginning in FY2014, this Program Element (PE) 1160404BB, Special Operations Tactical Systems Development has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 0.821 | - | - | - | - |
| Current President's Budget | 0.701 | - | - | - | - |
| Total Adjustments | -0.120 | - | - | - | - |
| • Congressional General Reductions | -0.095 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.001 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.024 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160404BB *I Special Operations Tactical Systems Development* |

FY2013: Decrease of $0.120 million is due to sequestration reductions (-$0.095 million), congressional rescission reductions (-$0.001 million), and a transfer of funds to Small Business Innovative Research (-$0.024 million).

Sequestration Impact: Decrease required project re-scope and renegotiation.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160404BB / *Special Operations Tactical Systems Development* | Project (Number/Name)<br>S710 / *SO Tactical Systems (Automation)* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S710: *SO Tactical Systems (Automation)* | 22.982 | 0.701 | - | - | - | - | - | - | - | - | - | 23.683 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

- The Tactical Local Area Network (TACLAN) provides SOF operational commanders and forward deployed forces advanced 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 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** TACLAN Suites | 0.701 | - | - |
| ***FY 2013 Accomplishments:***<br>Started design and integration of the next generation TACLAN. | | | |
| **Accomplishments/Planned Programs Subtotals** | 0.701 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Automation Systems* | 63.339 | - | - | - | - | - | - | - | - | - | 63.339 |

**Remarks**

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160404BB / *Special Operations Tactical Systems Development* | **Project (Number/Name)**<br>S710 / *SO Tactical Systems (Automation)* |

**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160405BB / *Intelligence Systems Development* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 522.759 | 23.822 | 7.705 | 9.490 | - | 9.490 | 6.436 | 6.465 | 6.589 | 5.898 | Continuing | Continuing |
| S400: *SO Intelligence Systems* | 522.759 | 23.822 | 7.705 | 9.490 | - | 9.490 | 6.436 | 6.465 | 6.589 | 5.898 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 25.935 | 7.705 | 7.769 | - | 7.769 |
| Current President's Budget | 23.822 | 7.705 | 9.490 | - | 9.490 |
| Total Adjustments | -2.113 | - | 1.721 | - | 1.721 |
| • Congressional General Reductions | -2.079 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.034 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Other Adjustments | - | - | 1.721 | - | 1.721 |

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160405BB / *Intelligence Systems Development* |

Sequestration Impacts: Delayed development and follow-on prototype production of Joint Threat Warning System (JTWS) Maritime carry on/carry off Signals Intelligence payloads for 22 SOF maritime craft by one year.

FY 2014: None.

FY 2015: Increase of $1.721 million supports Hostile Forces-Tagging, Tracking, and Locating equipment integration/operational testing ($0.731 million), Integrated Survey Program integration/operational testing ($0.278 million) and JTWS equipment integration/operational testing ($0.712 million).

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | | | | | | | | | Date: March 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | | | | | R-1 Program Element (Number/Name)<br>PE 1160405BB / *Intelligence Systems Development* | | | | Project (Number/Name)<br>S400 / *SO Intelligence Systems* | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2013** | **FY 2014** | **FY 2015 Base** | **FY 2015 OCO #** | **FY 2015 Total** | **FY 2016** | **FY 2017** | **FY 2018** | **FY 2019** | **Cost To Complete** | **Total Cost** |
| S400: *SO Intelligence Systems* | 522.759 | 23.822 | 7.705 | 9.490 | - | 9.490 | 6.436 | 6.465 | 6.589 | 5.898 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the Military Intelligence Program (MIP) that provides for the identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. The systems developed and tested in this line item are Hostile Forces - Tagging, Tracking, and Locating (HF-TTL); Integrated Survey Program (ISP); Counter-Proliferation Analyses and Planning System (CAPS); Joint Threat Warning System (JTWS); National Systems Support to SOF (NSSS); and Special Operations Tactical Video System (SOTVS).

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

OPERATIONAL ELEMENT (TEAM)

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

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

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

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

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

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

ABOVE OPERATIONAL ELEMENT (GARRISON)

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

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** NSSS | 0.783 | 0.795 | 0.807 |
| ***FY 2013 Accomplishments:***<br>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 Intelligence, Surveillance, Reconnaissance (ISR) support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as FFT, especially in system-challenged environments. | | | |
| ***FY 2014 Plans:***<br>Develop SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the NIC, while coordinating with other SOCOM and NIC Programs of Record for production and operational fielding of the successful capabilities. Emphasis areas will include ISR support for Tagging, Tracking, and higher-accuracy Geolocating hostile forces, as well as FFT, especially in system-challenged environments. | | | |
| ***FY 2015 Plans:***<br>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 FFT, especially in system-challenged environments. | | | |
| ***Title:*** JTWS | 3.758 | 6.543 | 7.301 |
| ***FY 2013 Accomplishments:***<br>Continued networking and testing within the JTWS Family of Systems (FoS) and implemented Time Difference of Arrival technologies in downsized hardware/software configuration on all variants. Continued development, integration and testing of JTWS Maritime variant. | | | |
| ***FY 2014 Plans:***<br>Continue networking and testing within the JTWS FoS and continue spiral development for all variants. Begin JTWS Maritime prototype development. | | | |
| ***FY 2015 Plans:***<br>Continues networking and testing within the JTWS FoS and continues spiral development for all variants. Continues JTWS Maritime prototype development. | | | |
| ***Title:*** HF-TTL | - | - | 0.731 |
| ***FY 2015 Plans:*** | | | |

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| This is a FY 2015 new start. Begins specialized device integration and operational testing and evaluation. | | | |
| ***Title:*** SOTVS<br>***FY 2014 Plans:***<br>Begin integration/operational testing within the SOTVS FoS for technology insertions of improved/downsized hardware/software configuration on all systems.<br>***FY 2015 Plans:***<br>Continues integration/operational testing within the SOTVS FoS for technology insertions of improved/downsized hardware/ software configuration on all systems. | - | 0.367 | 0.373 |
| ***Title:*** CAPS<br>***FY 2013 Accomplishments:***<br>Completed Spiral 13 and transitioned program management to the DIA. | 19.281 | - | - |
| ***Title:*** ISP<br>***FY 2015 Plans:***<br>This is a FY 2015 new start. Begins development for the modernization of the ISP system to integrate with enterprise architecture and support the latest standards and technology. | - | - | 0.278 |
| **Accomplishments/Planned Programs Subtotals** | 23.822 | 7.705 | 9.490 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Intelligence Systems* | 92.870 | 93.119 | 81.001 | - | 81.001 | 99.631 | 99.600 | 96.230 | 97.370 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

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

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

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

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

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

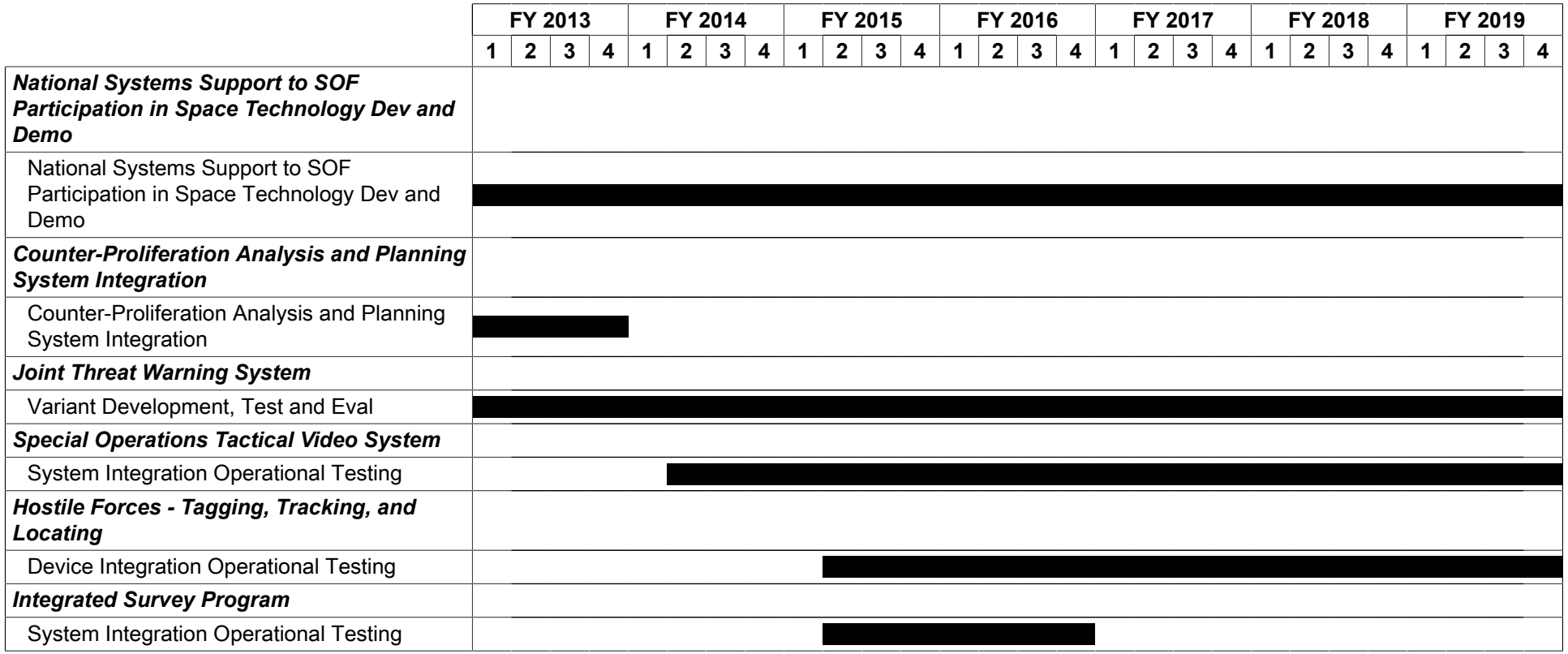
• CAPS is a long-term, strategic program of record with Lawrence Livermore National Laboratory to research, develop, produce and disseminate mission-tailored engineering assessments of foreign WMD capabilities. CAPS performs spiral development of leading edge technologies for military operational planning to meet emerging threats. CAPS program funding and responsibility transferred to the Defense Intelligence Agency in FY 2014.

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

**E. Performance Metrics**

N/A

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



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

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***National Systems Support to SOF Participation in Space Technology Dev and Demo*** | | | | |
| National Systems Support to SOF Participation in Space Technology Dev and Demo | 1 | 2013 | 4 | 2019 |
| ***Counter-Proliferation Analysis and Planning System Integration*** | | | | |
| Counter-Proliferation Analysis and Planning System Integration | 1 | 2013 | 4 | 2013 |
| ***Joint Threat Warning System*** | | | | |
| Variant Development, Test and Eval | 1 | 2013 | 4 | 2019 |
| ***Special Operations Tactical Video System*** | | | | |
| System Integration Operational Testing | 2 | 2014 | 4 | 2019 |
| ***Hostile Forces - Tagging, Tracking, and Locating*** | | | | |
| Device Integration Operational Testing | 2 | 2015 | 4 | 2019 |
| ***Integrated Survey Program*** | | | | |
| System Integration Operational Testing | 2 | 2015 | 4 | 2016 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160408BB / *Operational Enhancements* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 75.010 | 56.754 | 41.252 | 75.253 | - | 75.253 | 63.128 | 57.297 | 64.607 | 67.191 | Continuing | Continuing |
| S500A: *Operational Enhancements* | 75.010 | 56.754 | 41.252 | 75.253 | - | 75.253 | 63.128 | 57.297 | 64.607 | 67.191 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

Details are provided under separate cover.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 51.700 | 42.620 | 75.329 | - | 75.329 |
| Current President's Budget | 56.754 | 41.252 | 75.253 | - | 75.253 |
| Total Adjustments | 5.054 | -1.368 | -0.076 | - | -0.076 |
| • Congressional General Reductions | -5.933 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.083 | - | | | |
| • Congressional Adds | 16.000 | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -3.415 | - | | | |
| • SBIR/STTR Transfer | -1.515 | -1.368 | | | |
| • Other Adjustments | - | - | -0.076 | - | -0.076 |

**Change Summary Explanation**

Funding:

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

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

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

Schedule: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160408BB / *Operational Enhancements* |

Technical: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160421BB / *Special Operations CV-22 Development* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 523.800 | 2.076 | - | - | - | - | - | - | - | - | - | 525.876 |
| SF200: *SO CV-22* | 523.800 | 2.076 | - | - | - | - | - | - | - | - | - | 525.876 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 1.822 | - | - | - | - |
| Current President's Budget | 2.076 | - | - | - | - |
| Total Adjustments | 0.254 | - | - | - | - |
| • Congressional General Reductions | -0.089 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.003 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 0.403 | - | | | |
| • SBIR/STTR Transfer | -0.057 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160421BB / *Special Operations CV-22 Development* |

FY 2013: Net increase of $0.254 million is due to sequestration reductions (-$0.089 million), congressional rescission (-$0.003 million), a reprogramming to support Specialized Automated Mission Suite-Enhanced Situational Awareness Non-recurring engineering ($0.403 million), and a transfer of funds to Small Business Innovative Research (-$0.057 million).

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160421BB / *Special Operations CV-22 Development* | Project (Number/Name)<br>SF200 / *SO CV-22* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF200: *SO CV-22* | 523.800 | 2.076 | - | - | - | - | - | - | - | - | - | 525.876 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** CV-22 Aircraft Block 20 | 2.076 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued Enhanced Situational Awareness development providing enhanced, correlated, fusion and display, threat response, training and simulation capabilities. | | | |
| **Accomplishments/Planned Programs Subtotals** | 2.076 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *CV-22 SOF Modification* | 126.021 | 98.927 | 25.578 | - | 25.578 | 19.703 | 16.123 | 13.226 | 13.480 | - | 1,696.207 |
| • PROC/V022A0: *Aircraft Procurement CV-22 (MYP)* | 423.475 | 230.798 | - | - | - | - | - | - | - | - | 4,272.414 |
| • RDT&E1/0401318F: *RDT&E, USAF* | 28.027 | 30.438 | 25.596 | - | 25.596 | 16.524 | 14.308 | 14.566 | - | 131.500 | 613.166 |
| • RDT&E/0604262N: *V-22 RDT&E, N BA-05* | 54.436 | 30.350 | 60.421 | - | 60.421 | 54.720 | 52.202 | 53.063 | - | 273.513 | 9,363.505 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160421BB / *Special Operations CV-22 Development* | **Project (Number/Name)**<br>SF200 / *SO CV-22* |

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

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

**Remarks**

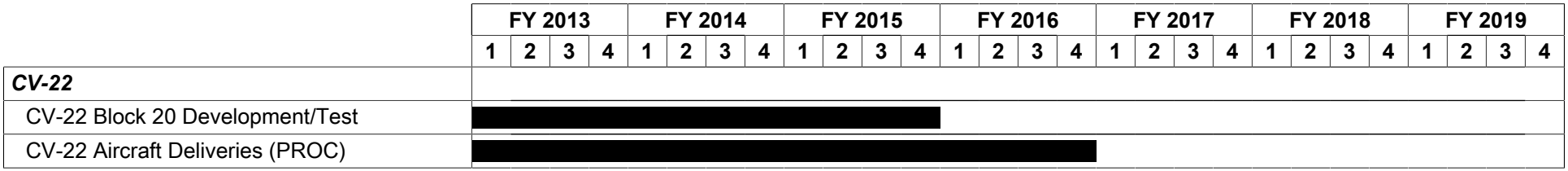
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160421BB / *Special Operations CV-22 Development* | **Project (Number/Name)**<br>SF200 / *SO CV-22* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160421BB / *Special Operations CV-22 Development* | **Project (Number/Name)**<br>SF200 / *SO CV-22* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***CV-22*** | | | | |
| CV-22 Block 20 Development/Test | 1 | 2013 | 4 | 2015 |
| CV-22 Aircraft Deliveries (PROC) | 1 | 2013 | 4 | 2016 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160427BB / *Mission Training and Preparation Systems (MTPS)* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 17.303 | 8.013 | - | - | - | - | - | - | - | - | - | 25.316 |
| S750: *Mission Training and Preparation Systems* | 17.303 | 8.013 | - | - | - | - | - | - | - | - | - | 25.316 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 10.131 | - | - | - | - |
| Current President's Budget | 8.013 | - | - | - | - |
| Total Adjustments | -2.118 | - | - | - | - |
| • Congressional General Reductions | -0.740 | - | | | |
| • Congressional Directed Reductions | -1.324 | - | | | |
| • Congressional Rescissions | -0.012 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 0.225 | - | | | |
| • SBIR/STTR Transfer | -0.267 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160427BB *I Mission Training and Preparation Systems (MTPS)* |

FY 2013: Net decrease of $2.118 million is due to sequestration reductions (-$0.740 million), a decrease due to transfer of funds from Terrain Following/Terrain Avoidance Simulator RDT&E to Procurement (-$1.324 million), congressional rescissions (-$0.012 million), a reprogramming to support data transfer software efforts ($0.225 million), and a transfer of funds to Small Business Innovative Research (-$0.267 million).

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160427BB / *Mission Training and Preparation Systems (MTPS)* | Project (Number/Name)<br>S750 / *Mission Training and Preparation Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S750: *Mission Training and Preparation Systems* | 17.303 | 8.013 | - | - | - | - | - | - | - | - | - | 25.316 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

Sub-projects include:

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160427BB / *Mission Training and Preparation Systems (MTPS)* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continued 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)<br>***FY 2013 Accomplishments:***<br>Continued development of SOF unique training capabilities to support training for the new Mission Design Series AC/MC-130J aircraft. | 3.955 | - | - |
| **Accomplishments/Planned Programs Subtotals** | 8.013 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/: *Mission Training and Preparation Systems* | 38.440 | - | - | - | - | - | - | - | - | - | 38.440 |

**Remarks**

**D. Acquisition Strategy**

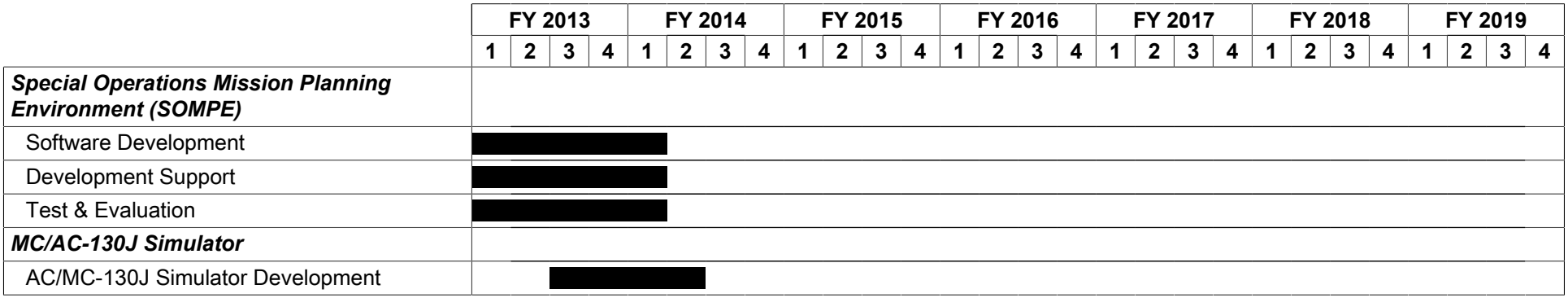
• SOMPE: Comprises multiple mission planning software development contracts awarded annually to developers for each project effort. Acquisition strategies depend on the type of development effort. For minor software development projects, contracts may be awarded as sole source acquisitions from existing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

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160427BB / *Mission Training and Preparation Systems (MTPS)* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160427BB / *Mission Training and Preparation Systems (MTPS)* | **Project (Number/Name)**<br>S750 / *Mission Training and Preparation Systems* |

## Schedule Details

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160429BB / *AC/MC-130J* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 44.550 | 17.809 | - | - | - | - | - | - | - | - | - | 62.359 |
| S875: *AC/MC-130J* | 44.550 | 17.809 | - | - | - | - | - | - | - | - | - | 62.359 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160429BB *I AC/MC-130J* |

FY 2013: Net decrease of $1.838 million is due to sequestration reductions (-$1.649 million), congressional rescissions (-$0.026 million), reprogramming to support AC/MC-130J Radio Frequency Countermeasures ($0.433 million), and a decrease due to a transfer of funds to Small Business Innovative Research (-$0.596 million).

Schedule: None.

Technical: None

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160429BB / *AC/MC-130J* | Project (Number/Name)<br>S875 / *AC/MC-130J* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S875: *AC/MC-130J* | 44.550 | 17.809 | - | - | - | - | - | - | - | - | - | 62.359 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** AC/MC-130J | 17.809 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued 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 PSP kit installation. Update interface designs based on results of initial design evaluation. | | | |
| **Accomplishments/Planned Programs Subtotals** | 17.809 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *AC/MC-130J* | 26.701 | 50.300 | 65.130 | - | 65.130 | 68.730 | 70.916 | 165.144 | 185.672 | Continuing | Continuing |
| • PROC2: *Precision Strike Package* | 67.362 | 93.520 | 145.929 | - | 145.929 | 223.351 | 245.749 | 251.450 | 255.045 | 794.392 | 1,821.753 |

**Remarks**

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160429BB / *AC/MC-130J* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |

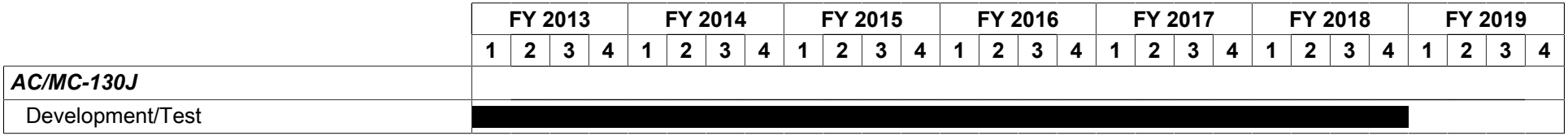
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A.

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160429BB / *AC/MC-130J* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160429BB / *AC/MC-130J* | **Project (Number/Name)**<br>S875 / *AC/MC-130J* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***AC/MC-130J*** | | | | |
| Development/Test | 1 | 2013 | 4 | 2018 |

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

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

unspecified periods and in locations requiring small unit autonomy. Communications efforts will maintain a Command, Control, and Communications (C3) link between SOF Commanders and SOF Teams, and provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies and allied foreign forces. Efforts relating to soldier protection and survival requirements will improve survivability and mobility of SOF while conducting varied missions. Specialized visual augmentation, lasers and sensors will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. Munition efforts include advanced engineering operational system development and qualification efforts related to SOF-peculiar munitions and equipment. Additionally, MISO efforts include planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups and individuals.

Warrior Systems specialized equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

Tactical Systems Development:
This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of SOF. Tactical systems provide forward deployed forces with advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and command and control (C2) of forces.

Communications Equipment and Electronics Systems:
This project provides for communication systems to meet emergent requirements to support SOF. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, SOF Communications Equipment and Electronics is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.

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

Weapons Systems:
This project provides for next generation system development and pre-planned product improvements (P3I), testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of SOF. Current efforts include life cycle replacement of MK13 rifles by the Precision Sniper Rifle and an

anti-materiel rifle that will pursue heavy sniper system technology to provide SOF with precision engagement capabilities. In the weapons accessories program, efforts are currently focusing on muzzle brakes and suppressors and P3I for a variety of accessories, both individual and crew served, by leveraging the latest technological advances in optical accessories.

Soldier Protection and Survival Systems:
This project provides for development, testing, and integration of specialized equipment to meet the unique soldier protection and survival requirements of SOF. Specialized equipment will improve survivability and mobility of SOF while conducting varied missions. Current efforts include, but are not limited to counter-improvised explosive device system improvements and testing to meet continually changing technology on the battlefield.

Body Armor and Associated Equipment:
Note: The National Defense Authorization Act of 2010 directed a separate project (S385A) be created for ballistic protection efforts.
This project provides specialized equipment with ballistic protection to meet the unique soldier protection and survival requirements of SOF. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. This project enhances the SOF Personal Equipment Advanced Requirements (SPEAR) program by supporting body armor plates, soft armor, helmets, and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment to meet current ballistic threats that exists on the battlefield.

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

Munitions Development:
This project provides for the advanced engineering, operational system development, and qualification efforts related to SOF-peculiar munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). (Including bullet impact, fast cook off, fragment impact, slow cook off, sympathetic detonation, and shaped charge test.) Testing is in accordance with the USSOCOM IM Strategic Plan. Funding also supports efforts to develop and improve Stand-Off Precision Guided Munitions (SOPGM), including the development and integration of improved warheads, seeker, guidance navigation and control systems, operational flight software and missile delivery to meet SOF requirements.

MISO:
This project provides for the development, test and integration of MISO equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct the seven phase MISO process (planning, targeting audience analysis, series development, product development and design, approval, production/distribution/dissemination, and measures of effectiveness) in support of combatant commanders.

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

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

**Change Summary Explanation**

Funding:

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

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

Schedule: None.

Technical: None.

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S710: *Tactical Systems Development* | - | - | 0.353 | 1.023 | - | 1.023 | 0.975 | 0.875 | 0.893 | 0.910 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

- The Tactical Local Area Network (TACLAN) provides SOF operational commanders and forward deployed forces advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and command and control of forces. The project consists of Suites, Mission Planning Kits and Field Computing Devices, Coalition Local Area Network, and Full Motion Video Kits.

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

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

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

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

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

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

**Remarks**

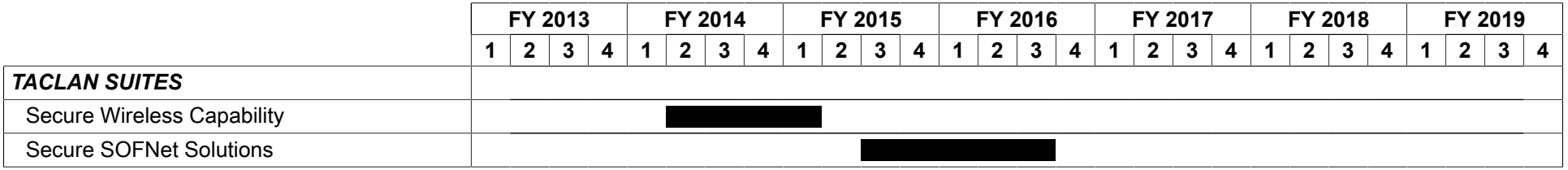
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

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



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

## Schedule Details

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

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S700: *Communications Equipment and Electronics Systems* | - | - | 3.264 | 4.230 | - | 4.230 | 5.434 | 4.287 | 5.203 | 5.341 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

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

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

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

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

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

**Remarks**

**D. Acquisition Strategy**

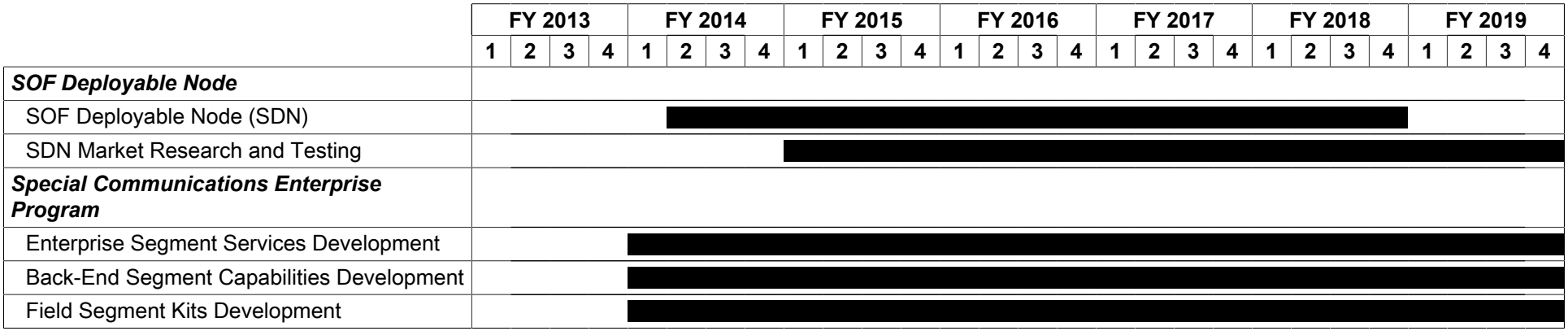
• SDN is a fielded program with ETIs into all variants: heavy, medium, and light, wideband SATCOM-On-The-Move, Mobile SOF Strategic Entry Point, and airborne Intelligence Surveillance Reconnaissance transport variants. Commercial and government agency sources will be leveraged for required certifications,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

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

**E. Performance Metrics**

N/A

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



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

## Schedule Details

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

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S725: *Tactical Radio Systems* | - | - | 1.699 | 3.670 | - | 3.670 | 5.637 | 1.707 | 1.702 | 1.726 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project is for development of all SOF tactical radio programs. Tactical Radios provide the critical Command, Control, Communications (C3) link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios, which includes SOF Tactical Communications, and Blue Force Tracking, rapidly and seamlessly establish and maintain mobile and fixed Command and Control (C2) communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

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

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

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

**Remarks**

**D. Acquisition Strategy**

STC is a Commercial-Off-The-Shelf/non-development item program with evolutionary technology insertions (ETIs). Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

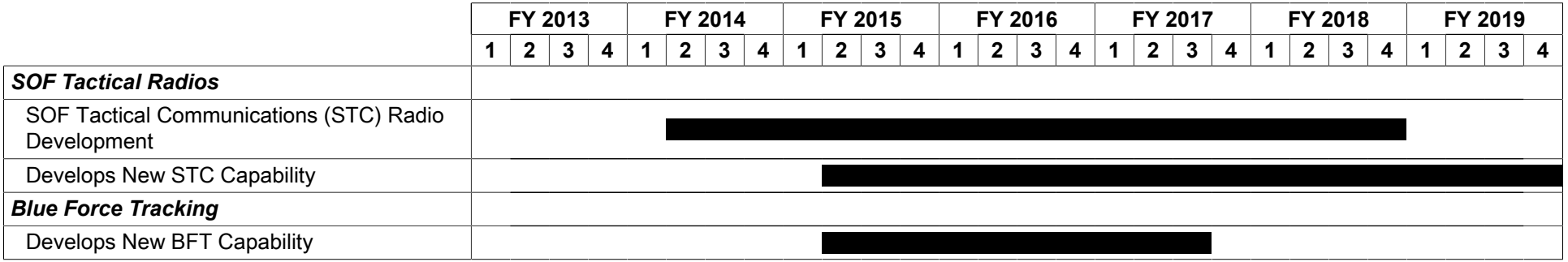
| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160431BB / *Warrior Systems* | **Project (Number/Name)**<br>S725 / *Tactical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

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

**E. Performance Metrics**

N/A.

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



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

## Schedule Details

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160431BB / *Warrior Systems* | Project (Number/Name)<br>S385 / *Soldier Protection and Survival Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S385: *Soldier Protection and Survival Systems* | - | - | 2.260 | 2.554 | - | 2.554 | 2.929 | 1.913 | 1.740 | 2.255 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160431BB / *Warrior Systems* | **Project (Number/Name)**<br>S385 / *Soldier Protection and Survival Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continue profile refinement to support signature management, reactive fiber testing and material research for uniforms. Continue research and development solicitation for an advanced maritime communications system material solution. Continue testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. Continue on-going prototype testing and research on load effects for survivability and soldier load analysis.<br>***FY 2015 Plans:***<br>Continues profile refinement to support signature management and material research for uniforms. Initiates research and development and a solicitation for a land communications material solution. Continues testing and development of lightweight, high performance textiles for enhanced material solutions that support SPEAR requirements. Continues on-going prototype testing. Address emerging SOF-unique requirements as SOF transitions from heavy deployments in Iraq and Afghanistan to a global focus. | | | |
| ***Title:*** TCCC<br>***FY 2014 Plans:***<br>Provide for test support to include program management, market surveys, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC program. Develops a solicitation for the contract re-compete for the TCCC CASEVAC set. Support system prototype development, testing and research on advanced tactical medical equipment to lessen battlefield losses, with the goal of transitioning these medical technology items to a program of record.<br>***FY 2015 Plans:***<br>Provides for test support to include program management, market surveys, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC program. Continue evaluation, airworthiness certification and miniaturization of TCCC CASEVAC components. Supports system prototype development, testing and research on advanced tactical medical equipment to lessen battlefield losses, with the goal of transitioning these medical technology items to a program of record. | - | 0.333 | 0.560 |
| ***Title:*** RC-IED<br>***FY 2014 Plans:***<br>Provide for National Assessment Group test support to the Counter RC-IED program. Support system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintains range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems.<br>***FY 2015 Plans:*** | - | 1.028 | 1.077 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160431BB / *Warrior Systems* | **Project (Number/Name)**<br>S385 / *Soldier Protection and Survival Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Provides for National Assessment Group test support to the Counter RC-IED program. Supports system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintains range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 2.260 | 2.554 |

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

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

**Remarks**

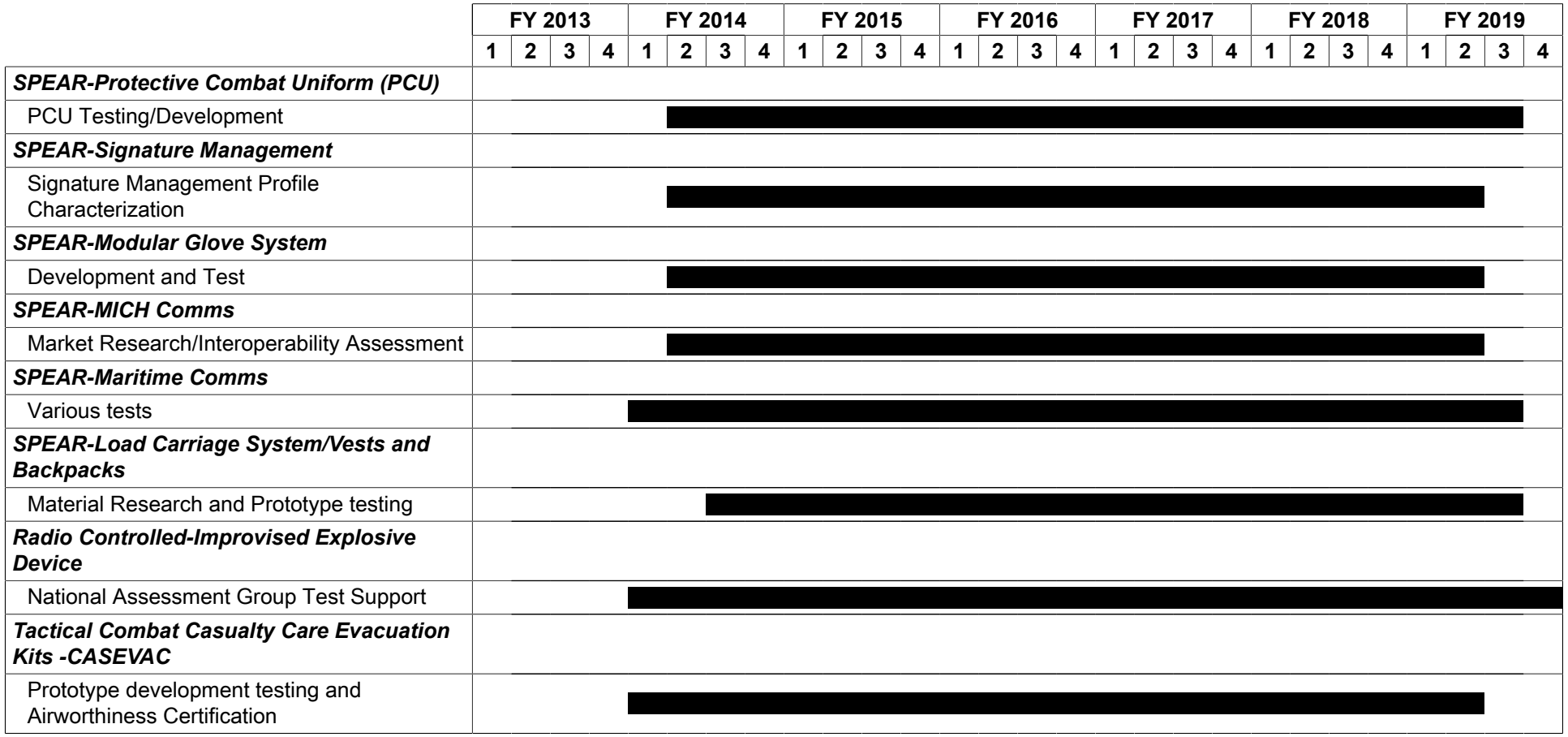
**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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



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

## Schedule Details

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

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S385A: *Body Armor and Associated Equipment* | - | - | 1.504 | 1.973 | - | 1.973 | 1.548 | 0.499 | 0.495 | 0.504 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SPEAR-Ballistic Protection | - | 1.504 | 1.973 |
| ***FY 2014 Plans:***<br>Continue foreign ammunition testing and threat validation to assess armor effectiveness. Continue the helmet behind armor effects studies to develop a helmet test methodology and corresponding performance metrics. Continue lightweight body armor material research and testing to include clandestine. Continue evaluation of transparent armor products which include ballistic and optical testing of photochromic, electrochromic and laser lenses. Continue work on anti-fogging technologies and testing. Research and testing of soldier worn sensors and non-destructive inspection technologies. | | | |
| ***FY 2015 Plans:***<br>Continues foreign ammunition testing and threat validation to assess armor effectiveness. Continues the helmet behind armor effects studies to develop a helmet test methodology and corresponding performance metrics. Research and testing of soldier worn sensors. Continues lightweight body armor material research and improved performance ballistic plates. Continues evaluation of transparent armor products which include ballistic and optical testing of photochromic, electrochromic and laser lenses. Continues work on anti-fogging technologies and testing. Address emerging SOF-unique requirements as SOF transitions from heavy deployments in Iraq and Afghanistan to a global focus. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 1.504 | 1.973 |

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

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

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

**Remarks**

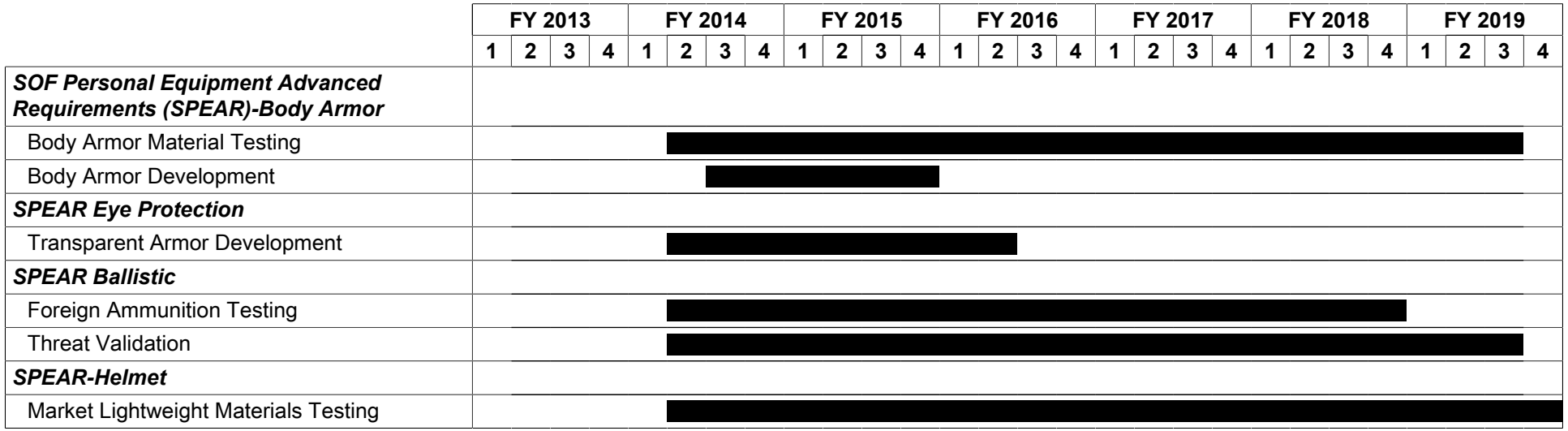
**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

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



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

## Schedule Details

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160431BB / *Warrior Systems* | Project (Number/Name)<br>S395 / *Visual Augmentation, Lasers and Sensor Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S395: *Visual Augmentation, Lasers and Sensor Systems* | - | - | - | 1.709 | - | 1.709 | 2.355 | 0.755 | 0.005 | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160431BB / *Warrior Systems* | **Project (Number/Name)**<br>S395 / *Visual Augmentation, Lasers and Sensor Systems* |

Visual Augmentation Systems Weapons Accessories (VASWA). This program effort enhances all SOF weapons, both individual and crew served, by leveraging the latest technological advances in optional accessories (up to 30 different functions / capabilities) such as combat optics, aiming laser modules, visible lights, and close quarters battle sights. Miniature Day-Night Sight for crew-served weapons enhances all SOF Weapons by leveraging existing image intensification and thermal technology to improve combat effectiveness for all crew-served weapon systems. Development efforts include test and evaluation of the Advanced Target Pointer Illuminator Aiming Laser hardening to withstand the live-fire shock profiles for the Combat Assault Rifle, VAS and clandestine pointer. Leveraging extensive modeling and simulation efforts executed by National Labs. Also, competitively award RDT&E contracts to select vendors in order to develop clandestine operator-borne visual augmentation devices. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator.

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

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

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

**Remarks**

**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S800: *Munitions Advanced Development* | - | - | 3.386 | 0.519 | - | 0.519 | 0.013 | - | - | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment.

Non-Standard Materiel (NSM). This program provides for Insensitive Munitions (IM) technology development and evaluations that allows SOF munitions to pass testing which includes bullet impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations IM Testing Plan.

Stand-Off Precision Guided Munitions (SOPGM) provides for the development and improvement of SOF-unique SOPGMs.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** NSM<br>***FY 2014 Plans:***<br>Conduct proof of principle and IM testing on various munitions. Continue full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).<br>***FY 2015 Plans:***<br>Conducts proof of principle and IM testing on various munitions. Continues full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006). | - | 0.453 | 0.519 |
| ***Title:*** SOPGM<br>***FY 2014 Plans:***<br>Begin efforts to integrate target seeker, warhead and guidance system technology upgrades for precision guided munitions, and evaluates first pass lethality performance improvements in laboratory and test range inert round, captive carry and live-fire flight tests. | - | 2.933 | - |
| **Accomplishments/Planned Programs Subtotals** | - | 3.386 | 0.519 |

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

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

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

**Remarks**

**D. Acquisition Strategy**

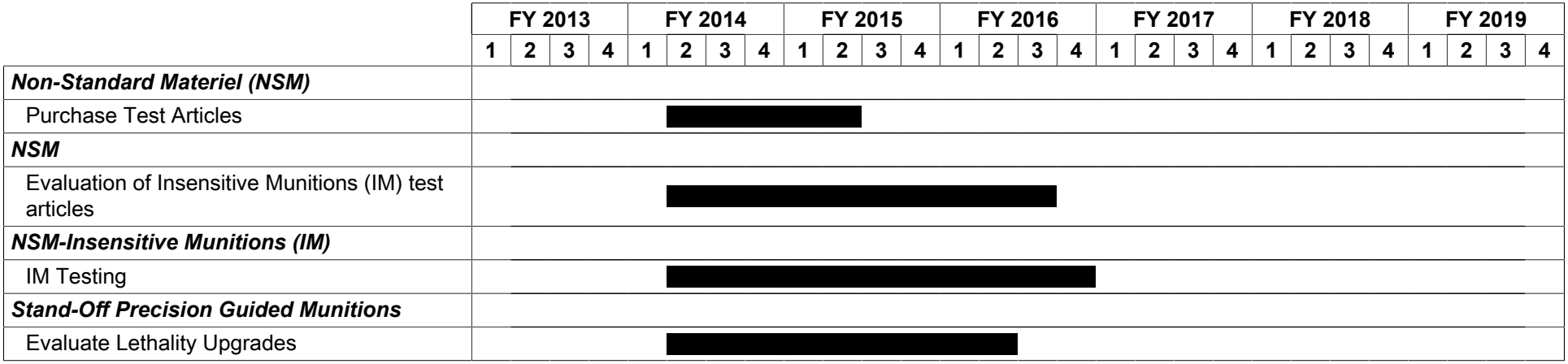
NSM: Munitions and packaging redesign shall take place within government laboratories, as well as in industry, depending on the munitions. IM solutions shall be tested on a small scale for proof of principle.

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

**E. Performance Metrics**

N/A

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



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

## Schedule Details

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

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

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D476: *Military Information Support Operations* | - | - | 2.507 | 8.983 | - | 8.983 | 7.072 | 5.207 | 4.338 | 1.900 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continue primary hardware development, systems engineering, and test and evaluation on product distribution technology. Test and evaluate new systems and components to enhance MISO product. Integrate and disseminate new analytical software tools to enhance production supporting MISO target audience assessment and measures of effectiveness requirements.<br>***FY 2015 Plans:***<br>Continues primary hardware development, systems engineering, and test and evaluation on product distribution technology. Tests and evaluates new systems and components to enhance MISO product. Integrates and disseminates new analytical software tools to enhance production supporting MISO target audience assessment and measures of effectiveness requirements. | | | |
| ***Title:*** LRBS (Previously funded under MISOB)<br>***FY 2015 Plans:***<br>Begins primary hardware development, systems engineering, and test and evaluation on pod-based FM and cellular broadcast, power, and antenna technologies. | - | - | 5.504 |
| ***Title:*** PDS (Previously funded under MISOB)<br>***FY 2015 Plans:***<br>Continues hardware development, systems engineering, and test and evaluation on new PDS / SDN-P components and technologies integrating audio/visual capabilities for enhanced distribution and delivery of MISO products. | - | - | 1.199 |
| **Accomplishments/Planned Programs Subtotals** | - | 2.507 | 8.983 |

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

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

**Remarks**

**D. Acquisition Strategy**

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

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

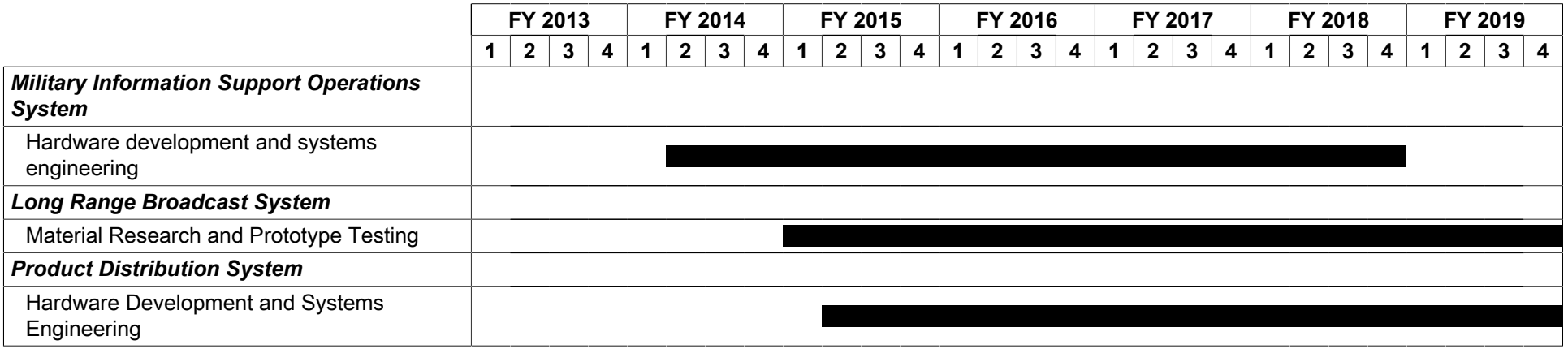
| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160431BB / *Warrior Systems* | **Project (Number/Name)**<br>D476 / *Military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

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

**E. Performance Metrics**

N/A.

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



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

## Schedule Details

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160432BB / *Special Programs* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 0.000 | - | 7.185 | 20.908 | - | 20.908 | 3.124 | 1.641 | 1.676 | 1.706 | Continuing | Continuing |
| S500E: *Special Programs* | 0.000 | - | 7.185 | 20.908 | - | 20.908 | 3.124 | 1.641 | 1.676 | 1.706 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | - | 7.424 | 4.408 | - | 4.408 |
| Current President's Budget | - | 7.185 | 20.908 | - | 20.908 |
| Total Adjustments | - | -0.239 | 16.500 | - | 16.500 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | -0.239 | | | |
| • Other Adjustments | - | - | 16.500 | - | 16.500 |

**Change Summary Explanation**

Funding:

FY2013: None.

FY2014: Decrease of $0.239 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs.

FY2015: Increase of $16.500 million is due to a realignment to higher command priorities.

Schedule: None.

Technical: None.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160474BB / *SOF Communications Equipment and Electronics Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 117.608 | 1.976 | - | - | - | - | - | - | - | - | - | 119.584 |
| S700: *SOF Communications Equipment and Electronics Sys* | 117.608 | 1.976 | - | - | - | - | - | - | - | - | - | 119.584 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 2.225 | - | - | - | - |
| Current President's Budget | 1.976 | - | - | - | - |
| Total Adjustments | -0.249 | - | - | - | - |
| • Congressional General Reductions | -0.178 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.003 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.068 | - | | | |

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160474BB *I SOF Communications Equipment and Electronics Systems* |

Sequestration Impact: Required project re-scope.

FY2014: None

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160474BB / *SOF Communications Equipment and Electronics Systems* | Project (Number/Name)<br>S700 / *SOF Communications Equipment and Electronics Sys* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S700: *SOF Communications Equipment and Electronics Sys* | 117.608 | 1.976 | - | - | - | - | - | - | - | - | - | 119.584 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). 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 deployable, super high frequecy, multi-band, satellite communications (SATCOM) systems providing the transport path for high-capacity, voice, data, video tele conference (VTC), and video at all levels of classification. It consists of SDN variants, technology insertions and capital equipment replacement.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SDN | 1.976 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued to develop, test, and evaluate next generation light manpack systems and multi-purpose baseband, acceleration technologies, shipboard carry-on satellite systems and wide band SATCOM on-the-move for ground application. | | | |
| **Accomplishments/Planned Programs Subtotals** | 1.976 | - | - |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160474BB / *SOF Communications Equipment and Electronics Systems* | **Project (Number/Name)**<br>S700 / *SOF Communications Equipment and Electronics Sys* | |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC1: *Communications Equipment and Electronics* | 135.775 | - | - | - | - | - | - | - | - | - | 135.775 |

**Remarks**

**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160474BB / *SOF Communications Equipment and Electronics Systems* | **Project (Number/Name)**<br>S700 / *SOF Communications Equipment and Electronics Sys* |

| | FY 2013 | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| ***SOF Deployable Node*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evolutionary Technology Insertions | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160474BB / *SOF Communications Equipment and Electronics Systems* | **Project (Number/Name)**<br>S700 / *SOF Communications Equipment and Electronics Sys* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***SOF Deployable Node*** | | | | |
| Evolutionary Technology Insertions | 2 | 2013 | 4 | 2013 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160476BB / *SOF Tactical Radio Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 58.556 | 2.697 | - | - | - | - | - | - | - | - | - | 61.253 |
| S725: *SOF Tactical Radio Systems* | 58.556 | 2.697 | - | - | - | - | - | - | - | - | - | 61.253 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 3.036 | - | - | - | - |
| Current President's Budget | 2.697 | - | - | - | - |
| Total Adjustments | -0.339 | - | - | - | - |
| • Congressional General Reductions | -0.243 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.004 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.092 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160476BB / *SOF Tactical Radio Systems* |

FY 2013: Decrease of $0.339 million is due to sequestration reductions (-$0.243 million), congressional rescissions (-$0.004 million), and a transfer of funds to Small Business Innovative Research (-$0.092 million).

Sequestration Impact: Project re-scope and negotiation, resulting in a nine-month delay in contract award.

FY 2014: None.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160476BB / *SOF Tactical Radio Systems* | Project (Number/Name)<br>S725 / *SOF Tactical Radio Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S725: *SOF Tactical Radio Systems* | 58.556 | 2.697 | - | - | - | - | - | - | - | - | - | 61.253 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project is for development of all SOF tactical radio programs. 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 Command, Control, and Communications link between SOF Commanders and SOF Teams involved in Overseas Contingency Operations and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed Command and Control communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SOF Tactical Communications (STC) | 2.697 | - | - |
| ***FY 2013 Accomplishments:***<br>Developed and tested Tactical Radio application extension software to enhance C2 and situation awareness between ground SOF units and airborne and on-orbit assets. | | | |
| **Accomplishments/Planned Programs Subtotals** | 2.697 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC: *Tactical Radio Systems* | 69.197 | - | - | - | - | - | - | - | - | - | 69.197 |

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160476BB / *SOF Tactical Radio Systems* | **Project (Number/Name)**<br>S725 / *SOF Tactical Radio Systems* |

| | FY 2013 | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| ***SOF Tactical Radios*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Secure Wireless Capability | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160476BB / *SOF Tactical Radio Systems* | **Project (Number/Name)**<br>S725 / *SOF Tactical Radio Systems* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***SOF Tactical Radios*** | | | | |
| Secure Wireless Capability | 3 | 2013 | 3 | 2014 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160477BB / *SOF Weapons Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 11.134 | 1.610 | - | - | - | - | - | - | - | - | - | 12.744 |
| S375: *SOF Weapons Systems* | 11.134 | 1.610 | - | - | - | - | - | - | - | - | - | 12.744 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 1.511 | - | - | - | - |
| Current President's Budget | 1.610 | - | - | - | - |
| Total Adjustments | 0.099 | - | - | - | - |
| • Congressional General Reductions | -0.156 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.002 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | 0.302 | - | | | |
| • SBIR/STTR Transfer | -0.045 | - | | | |

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160477BB / *SOF Weapons Systems* |

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160477BB / *SOF Weapons Systems* | Project (Number/Name)<br>S375 / *SOF Weapons Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S375: *SOF Weapons Systems* | 11.134 | 1.610 | - | - | - | - | - | - | - | - | - | 12.744 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

Weapons Accessories (WPNAC). This program effort enhances all SOF weapons, both individual and crew served, by leveraging the latest technological advances in optional accessories (up to 30 different functions/capabilities) such as day scopes, clip-on night scopes, active aiming laser module, visible lights, grenade launchers, suppressors, hand grips, and close quarters battle sights. Miniature Day-Night Sight (MDNS) for Crew-served Weapons enhances all SOF weapons, by leveraging existing image intensification and thermal technology to improve combat effectiveness for all crew served weapon systems. Development efforts include test and evaluation of the Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) hardening to withstand the live-fire shock profiles for the Combat Assault Rifle (CAR), Visual Augmentation Systems (VAS), and Family of Muzzle Breaks and Suppressors (FMBS). Leveraging extensive modeling and simulation efforts executed by National Labs, competitively award RDT&E contracts to select vendors to develop suppressors and flashhiders for select SOF weapon systems. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** WPNAC | 1.610 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued development of VAS and FMBS programs. Conducted market research, continued down select support, test articles, operational and developmental testing, and user assessment that supported the VAS and FMBS programs. | | | |
| **Accomplishments/Planned Programs Subtotals** | 1.610 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC: *Small Arms and Weapons* | 25.244 | - | - | - | - | - | - | - | - | - | 25.244 |

**Remarks**

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160477BB / *SOF Weapons Systems* | **Project (Number/Name)**<br>S375 / *SOF Weapons Systems* |

**D. Acquisition Strategy**

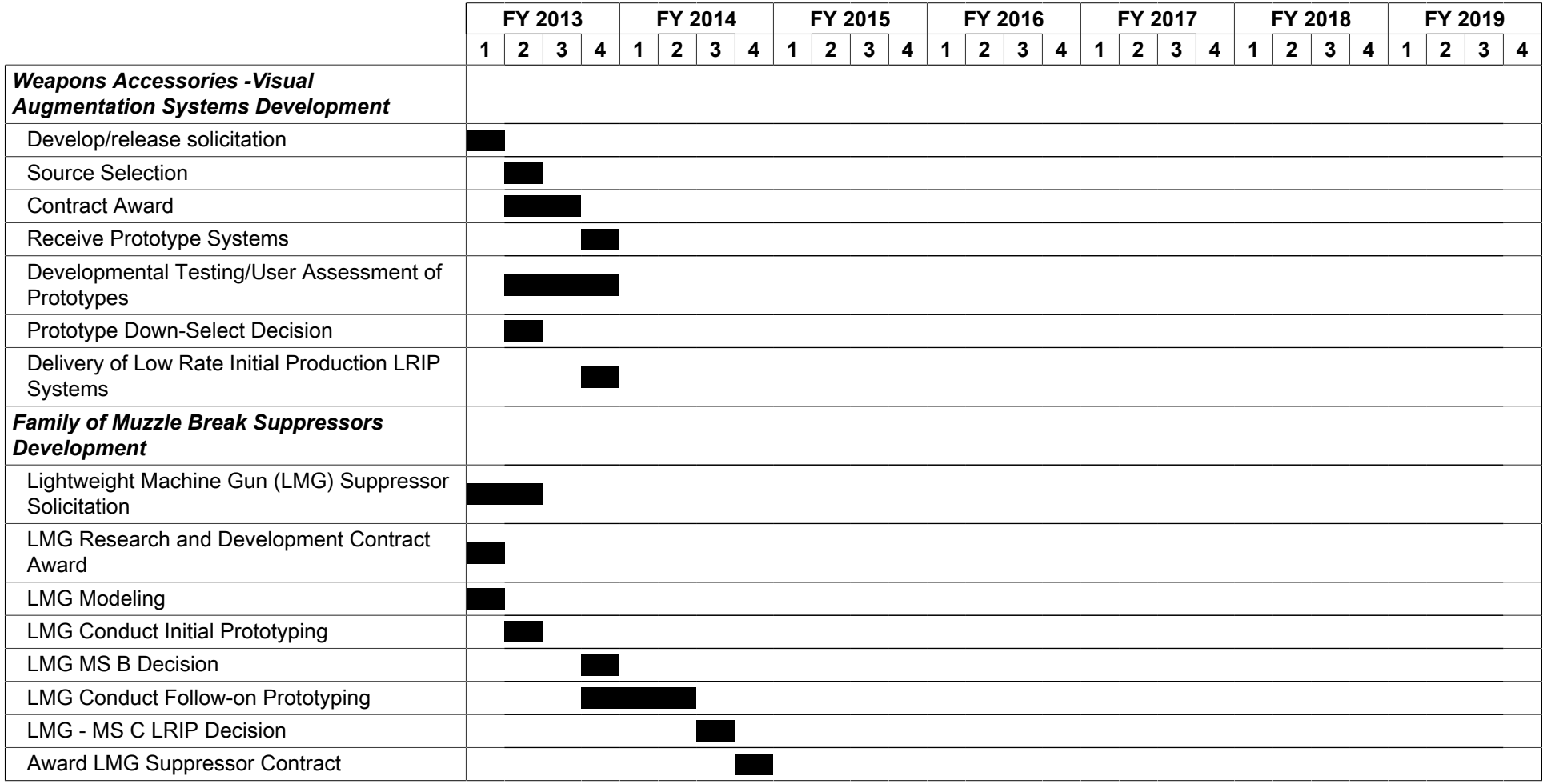
• WPNAC. Develops, tests, and evaluates accessories to optimize the effectiveness of all SOF weapons in order to increase their operational effectiveness through improved target recognition, acquisition and hit capability during day and night from close quarters to maximum effective range of each weapon.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

**E. Performance Metrics**

F. Major Performers

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

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160477BB / *SOF Weapons Systems* | **Project (Number/Name)**<br>S375 / *SOF Weapons Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160477BB / *SOF Weapons Systems* | **Project (Number/Name)**<br>S375 / *SOF Weapons Systems* |

## Schedule Details

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 7.168 | 3.748 | - | - | - | - | - | - | - | - | - | 10.916 |
| S385: *Soldier Protection and Survival Systems* | 6.297 | 2.707 | - | - | - | - | - | - | - | - | - | 9.004 |
| S385A: *Theater Body Armor and Associated Equipment* | 0.871 | 1.041 | - | - | - | - | - | - | - | - | - | 1.912 |

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

**Note**

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

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 4.263 | - | - | - | - |
| Current President's Budget | 3.748 | - | - | - | - |
| Total Adjustments | -0.515 | - | - | - | - |
| • Congressional General Reductions | -0.193 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.005 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -0.182 | - | | | |
| • SBIR/STTR Transfer | -0.135 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* |

FY 2013: Decrease of $0.515 million is due to sequestration (-$0.193 million), congressional rescission (-$0.005 million), a reprogramming to higher command priorities (-$0.182 million) and a transfer of funds to Small Business Innovative Research (-$0.135 million).

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | Project (Number/Name)<br>S385 / *Soldier Protection and Survival Systems* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S385: *Soldier Protection and Survival Systems* | 6.297 | 2.707 | - | - | - | - | - | - | - | - | - | 9.004 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SPEAR | 1.789 | - | - |
| ***FY 2013 Accomplishments:***<br>Provided continuation of profile refinement to support signature management, reactive fiber testing and material research for uniforms. Developed a solicitation for an advanced maritime communications system. Developed and test safety belt, lanyard efforts. In addition, tested nano-coatings for water repellency for individual equipment. Continued on-going prototype testing and research on load effects for survivability and marksmanship. | | | |
| ***Title:*** RC-IED | 0.918 | - | - |
| ***FY 2013 Accomplishments:*** | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385 / *Soldier Protection and Survival Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Provided for National Assessment Group test support to the RC-IED program. Support system engineering, test and evaluation, test article acquisition, and market research of the RC-IED programs. Maintained range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems. | | | |
| **Accomplishments/Planned Programs Subtotals** | 2.707 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/0607SPSS: *Soldier Protection and Survival Systems* | 14.572 | - | - | - | - | - | - | - | - | - | 50.415 |

**Remarks**

**D. Acquisition Strategy**

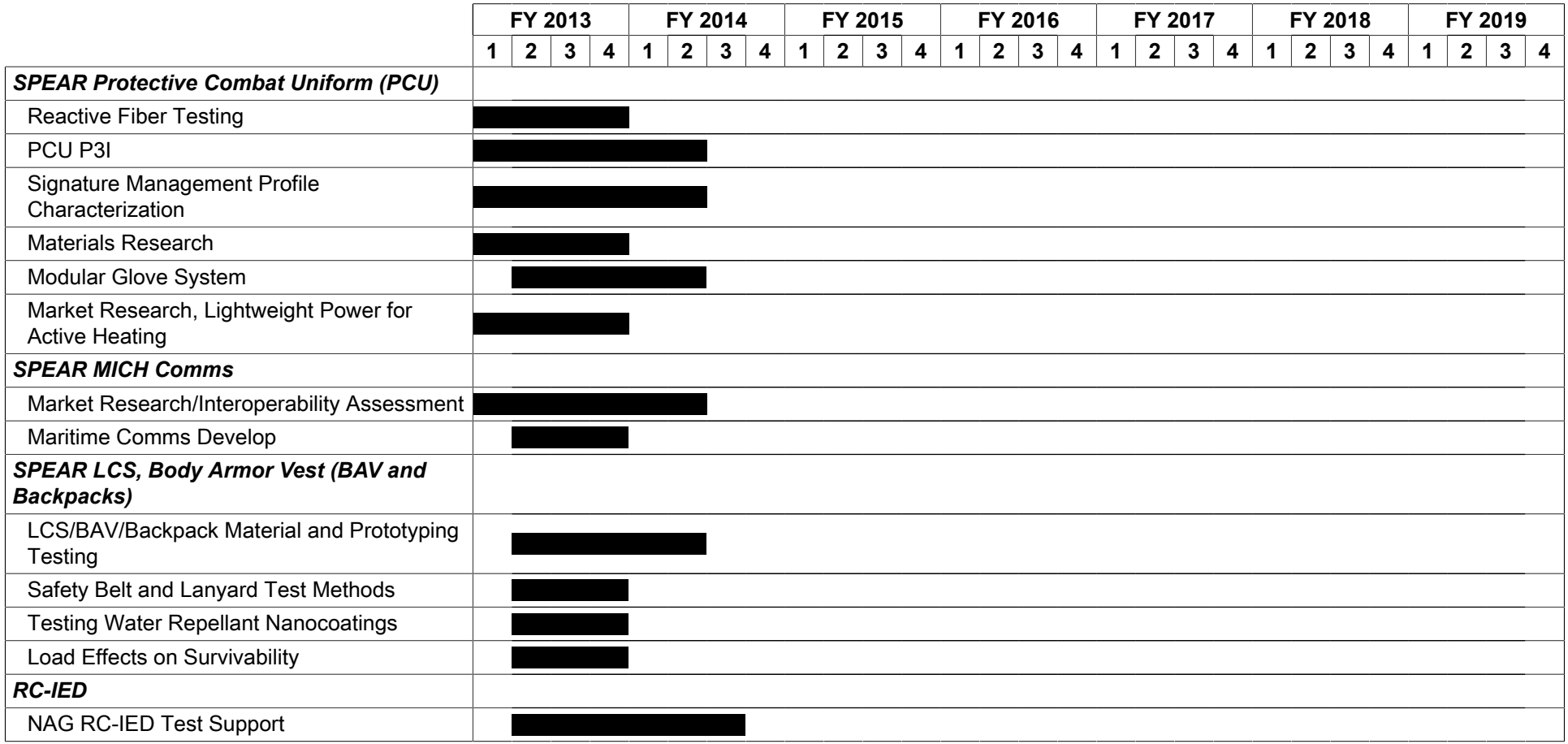
• SPEAR primarily took advantage of modified commercial off- the- shelf or non-developmental items through open competition. The majority of SPEAR purchases are made with O&M.

• RC-IED - Resources supports the on-going development and effectiveness testing through the National Assessment Group of the SOF-Unique Next Generation Electronic Countermeasure Counter Radio-Controlled Improvised Explosive Device (RC-IED) Warfare system.

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385 / *Soldier Protection and Survival Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385 / *Soldier Protection and Survival Systems* |

## Schedule Details

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | Project (Number/Name)<br>S385A / *Theater Body Armor and Associated Equipment* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S385A: *Theater Body Armor and Associated Equipment* | 0.871 | 1.041 | - | - | - | - | - | - | - | - | - | 1.912 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project provided specialized equipment to meet the unique soldier protection and survival requirements of 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 improved 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 enhanced the SOF Personal Equipment Advanced Requirements (SPEAR) program by supporting body armor plates, soft armor, helmets, and eye protection. It also provided for the research, development, and testing of a variety of body armor and personal protective equipment. Creation of a separate project for ballistic protection efforts was directed in the National Defense Authorization Act of 2010.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SPEAR | 1.041 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued foreign ammunition testing and threat validation to assess armor effectiveness. Continued the helmet design and blast studies. Conducted body armor material research and testing along with the soldier load analysis and on behind armor effects. Conducted evaluation of transparent armor products which include ballistic and optical testing of transition lenses. Initiated work on anti-fogging technologies and continued development of low visibility eyewear to support future eye protection capabilities. | | | |
| **Accomplishments/Planned Programs Subtotals** | 1.041 | - | - |

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

N/A

**Remarks**

**D. Acquisition Strategy**

SPEAR ballistic protection equipment took 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

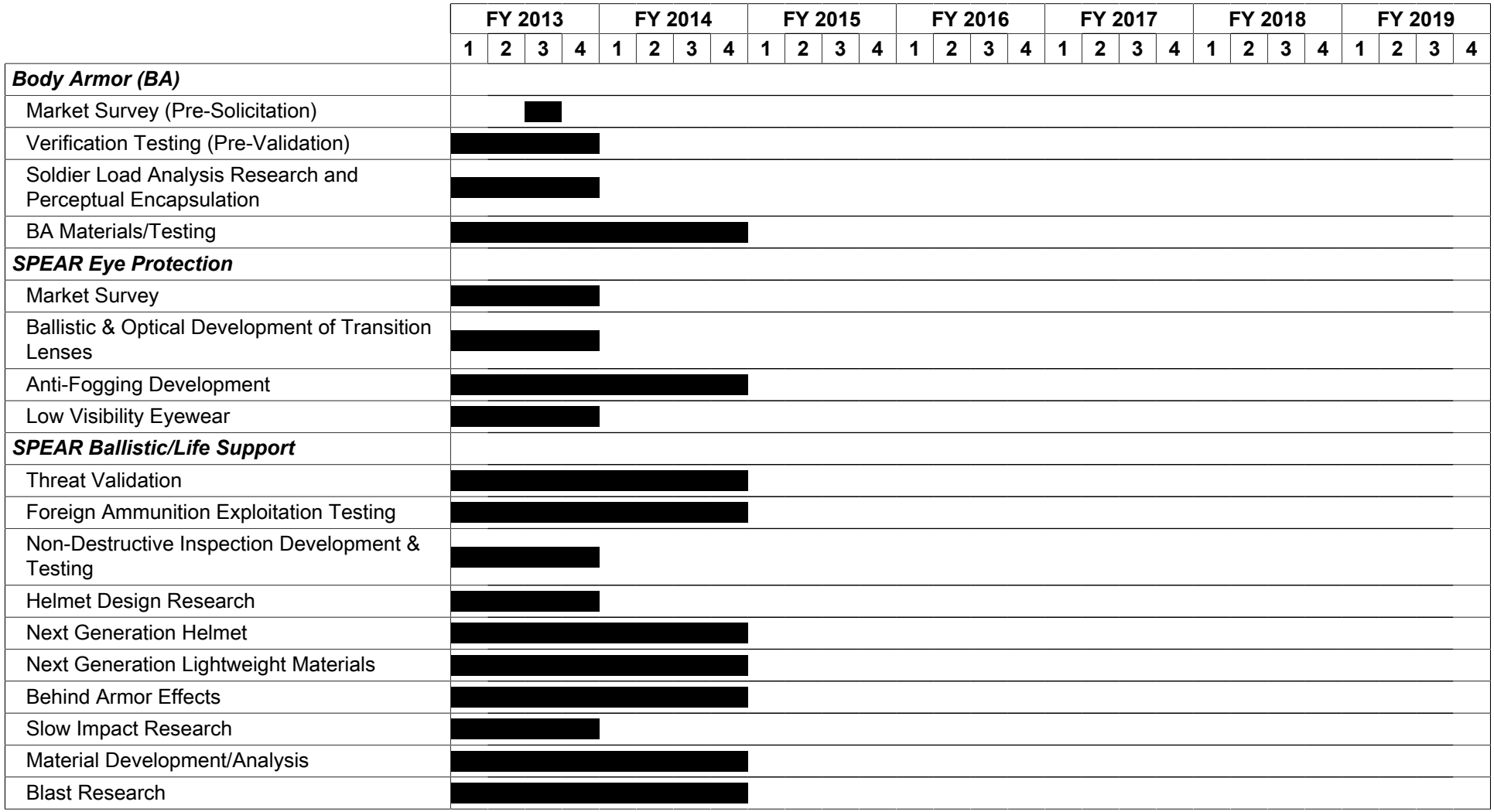
| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385A / *Theater Body Armor and Associated Equipment* |

on the cutting edge of technology and require substantial testing in the SOF environments. Some SPEAR ballistic systems have transitioned to the U.S. Army, other services and other government agencies.

**E. Performance Metrics**

N/A.

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385A / *Theater Body Armor and Associated Equipment* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160478BB / *SOF Soldier Protection and Survival Systems* | **Project (Number/Name)**<br>S385A / *Theater Body Armor and Associated Equipment* |

## Schedule Details

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160479BB / *SOF Visual Augmentation, Lasers and Sensor Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 13.960 | 3.649 | - | - | - | - | - | - | - | - | - | 17.609 |
| S395: *SOF Visual Augmentation, Lasers and Sensor Systems* | 13.960 | 3.649 | - | - | - | - | - | - | - | - | - | 17.609 |

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

**Note**

Beginning in FY 2014, this Program Element (PE) 1160479BB, SOF Visual Augmentation, Lasers and Sensor Systems has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 4.448 | - | - | - | - |
| Current President's Budget | 3.649 | - | - | - | - |
| Total Adjustments | -0.799 | - | - | - | - |
| • Congressional General Reductions | -0.357 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.005 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -0.302 | - | | | |
| • SBIR/STTR Transfer | -0.135 | - | | | |

**Change Summary Explanation**

Funding:

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160479BB *I SOF Visual Augmentation, Lasers and Sensor Systems* |

FY 2013: Decrease of -$0.799 million is due to sequestration reductions (-$0.357 million), congressional rescissions (-$0.005 million), a reprogramming to higher command priorities (-$0.302 million) and a transfer of funds to Small Business Innovation Research (-$0.135 million).

Sequestration Impacts: Delays the testing of the Hand-Held Laser Marker Designator by four months.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | | | | | | | | | | Date: March 2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | | | | | R-1 Program Element (Number/Name)<br>PE 1160479BB / *SOF Visual Augmentation, Lasers and Sensor Systems* | | | | Project (Number/Name)<br>S395 / *SOF Visual Augmentation, Lasers and Sensor Systems* | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2013** | **FY 2014** | **FY 2015 Base** | **FY 2015 OCO #** | **FY 2015 Total** | **FY 2016** | **FY 2017** | **FY 2018** | **FY 2019** | **Cost To Complete** | **Total Cost** |
| S395: *SOF Visual Augmentation, Lasers and Sensor Systems* | 13.960 | 3.649 | - | - | - | - | - | - | - | - | - | 17.609 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

These Visual Augmentation Systems will provide an all-weather, low-light capability for SOF personnel by employing a Block approach. This Block approach produces a family of VAS systems which will utilize a variety of different sensor technologies to satisfy the capabilities defined by individual Block requirement. Some examples of the types of sensor technologies that these systems may utilize include: Image Intensification, Thermal, Short Wave Infrared and/or multi-spectral. To date the Target Engagement Portfolio has utilized several Block system approaches that have been fielded by the VAS program. These VAS programs will be a developmental effort to produce and field the next generation systems for SOF personnel. SOF Improvements include the following: (1) Ability to detect, classify and engage targets without the use of an infrared illuminator; (2) ability to determine wind speed; (3) ability to observe bullet trace.

VAS Weapons Accessories (VASWA). This program effort enhances all SOF weapons, both individual and crew served, by leveraging the latest technological advances in optional accessories (up to 30 different functions / capabilities) such as combat optics, aiming laser modules, visible lights, and close quarters battle sights. Miniature Day-Night Sight (MDNS) for crew-served weapons enhances all SOF Weapons by leveraging existing image intensification and thermal technology to improve combat effectiveness for all crew-served weapon systems. Development efforts include test and evaluation of the Advanced Target Pointer Illuminator Aiming Laser hardening to withstand the live-fire shock profiles for the Combat Assault Rifle, VAS and clandestine pointer. Leveraging extensive modeling and simulation efforts executed by National Labs. Develop clandestine operator-borne visual augmentation devices. These accessories greatly improve the combat effectiveness of the weapon systems and the survivability of the SOF operator.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160479BB / *SOF Visual Augmentation, Lasers and Sensor Systems* | **Project (Number/Name)**<br>S395 / *SOF Visual Augmentation, Lasers and Sensor Systems* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** VAS | 3.649 | - | - |
| ***FY 2013 Accomplishments:***<br>Continued 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 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. | | | |
| **Accomplishments/Planned Programs Subtotals** | 3.649 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/0607SVALSS: *Visual Augmentation, Lasers and Sensor Systems* | 31.158 | - | - | - | - | - | - | - | - | - | 50.062 |

**Remarks**

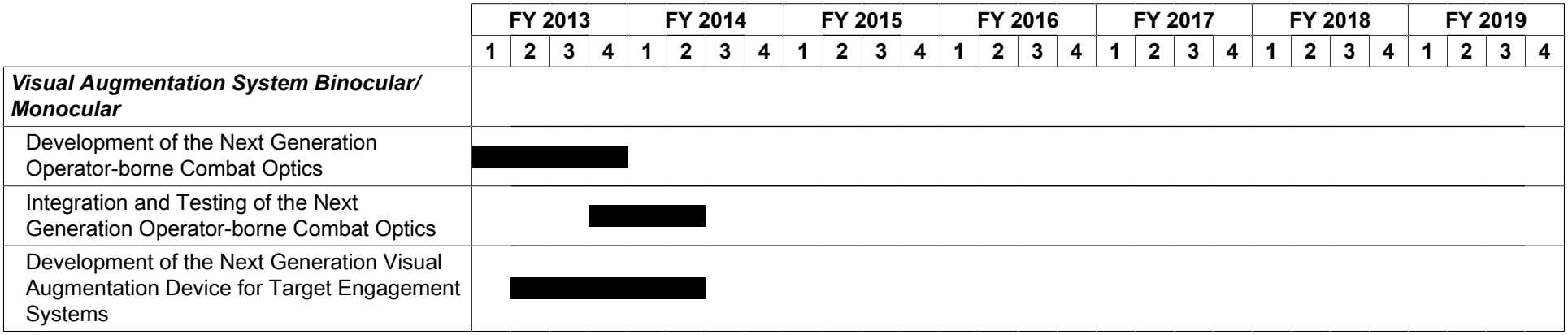
**D. Acquisition Strategy**

VAS utilizes FY 2012 and FY 2013 RDT&E funds to develop prototypes for the SOF next generation operator-borne visual augmentation devices. These developmental efforts will leverage Science and Technology projects conducted to date and lead to the development of prototype systems for SOF to evaluate and an Indefinite Delivery Indefinite Quantity production contract in FY 2014 and FY 2015 to support SOF procurement of the production version of the next generation operator-borne visual augmentation devices.

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160479BB / *SOF Visual Augmentation, Lasers and Sensor Systems* | **Project (Number/Name)**<br>S395 / *SOF Visual Augmentation, Lasers and Sensor Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160479BB / *SOF Visual Augmentation, Lasers and Sensor Systems* | **Project (Number/Name)**<br>S395 / *SOF Visual Augmentation, Lasers and Sensor Systems* |

## Schedule Details

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 15.424 | 10.935 | 2.135 | 3.672 | - | 3.672 | 3.235 | 3.369 | 2.621 | 2.669 | Continuing | Continuing |
| S910: *SOF Tactical Vehicles* | 15.424 | 10.935 | 2.135 | 3.672 | - | 3.672 | 3.235 | 3.369 | 2.621 | 2.669 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 11.325 | 2.206 | 3.672 | - | 3.672 |
| Current President's Budget | 10.935 | 2.135 | 3.672 | - | 3.672 |
| Total Adjustments | -0.390 | -0.071 | - | - | - |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.015 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.375 | -0.071 | | | |

**Change Summary Explanation**

Funding:

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

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

FY2015: None

Schedule: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* |

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160480BB / *SOF Tactical Vehicles* | Project (Number/Name)<br>S910 / *SOF Tactical Vehicles* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S910: *SOF Tactical Vehicles* | 15.424 | 10.935 | 2.135 | 3.672 | - | 3.672 | 3.235 | 3.369 | 2.621 | 2.669 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project develops, tests, and evaluates Special Operations vehicles and modifications. The Special Operations Forces (SOF) mission mandates that SOF vehicles remain technologically superior, operate in multiple environments and be able to meet any threat to provide a maximum degree of survivability. The current family of SOF tactical vehicles include: individual mobility vehicles, light mobility vehicles, medium mobility vehicles, non-standard commercial vehicles, and heavy mobility vehicles.

• Family of Special Operations Vehicles (FSOV). This initiative provides for product improvements in the areas of suspension, power management, armor protection and unique vehicle design for all SOF tactical vehicle configurations. Designs must be standardized across all SOF Components that utilize a tactical vehicle. Improvements include, but are not limited to, new engineering change proposals (ECPs), field safety issues and theater endorsed requirements that make it essential to keep up with the increased weight and minimize the impact to mobility on the basic vehicle. FSOV develops, integrates and tests Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) systems in order to reduce space and power claim on vehicles and develop safety and engineering improvements that specifically address the enemy's changing tactics on the battlefield which typically focuses on survivability, force protection, or mobility. Specific efforts include but are not limited to: Medium Mobility Vehicle Version 1.1 effort which provides for a medium vehicle variant capable of meeting specific requirements of internal aircraft transport on the C/MH47. The effort also provides for engineering costs related to performance, endurance, safety testing, integration and logistical analysis of product samples. Additionally, efforts include ECPs associated with the Non-Standard Commercial Vehicle (NSCV) and the Light Tactical Vehicle. These ECPs will address any identified safety, reliability, and performance concerns. Finally, funding will be used to support vehicle signature reduction efforts. The Mine Resistant Ambush Protected (MRAP) Vehicle Kit. Effort provides design, prototyping, testing and installation manual development of SOF peculiar integration kits for multiple models of Service-common MRAPs employed by SOF. Kits will enable SOF unique C4ISR installation and Common Remotely Operated Weapon Station integration to service-common MRAPs.

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* | **Project (Number/Name)**<br>S910 / *SOF Tactical Vehicles* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continue development of ECPs that implement incremental upgrades and improve the design of the medium mobility vehicles. Complete development, prototyping and testing of version 1.1 of medium mobility vehicle and SOF-Peculiar Integration Kits for service variant MRAPS.<br>***FY 2015 Plans:***<br>Continues integration of ECPs that implement incremental upgrades and improve the design of the medium mobility vehicles. Efforts include Live Fire Test and Evaluation (LFT&E) and Initial Operational Test and Evaluation (IOT&E) of GMV 1.1 medium mobility vehicle. Continues enhancements/modifications on the NSCV to improve reliability and survivability. | | | |
| **Accomplishments/Planned Programs Subtotals** | 10.935 | 2.135 | 3.672 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC: *Tactical Vehicles* | 37.080 | 37.353 | 63.134 | - | 63.134 | 71.741 | 84.603 | 68.149 | 69.473 | Continuing | Continuing |

**Remarks**

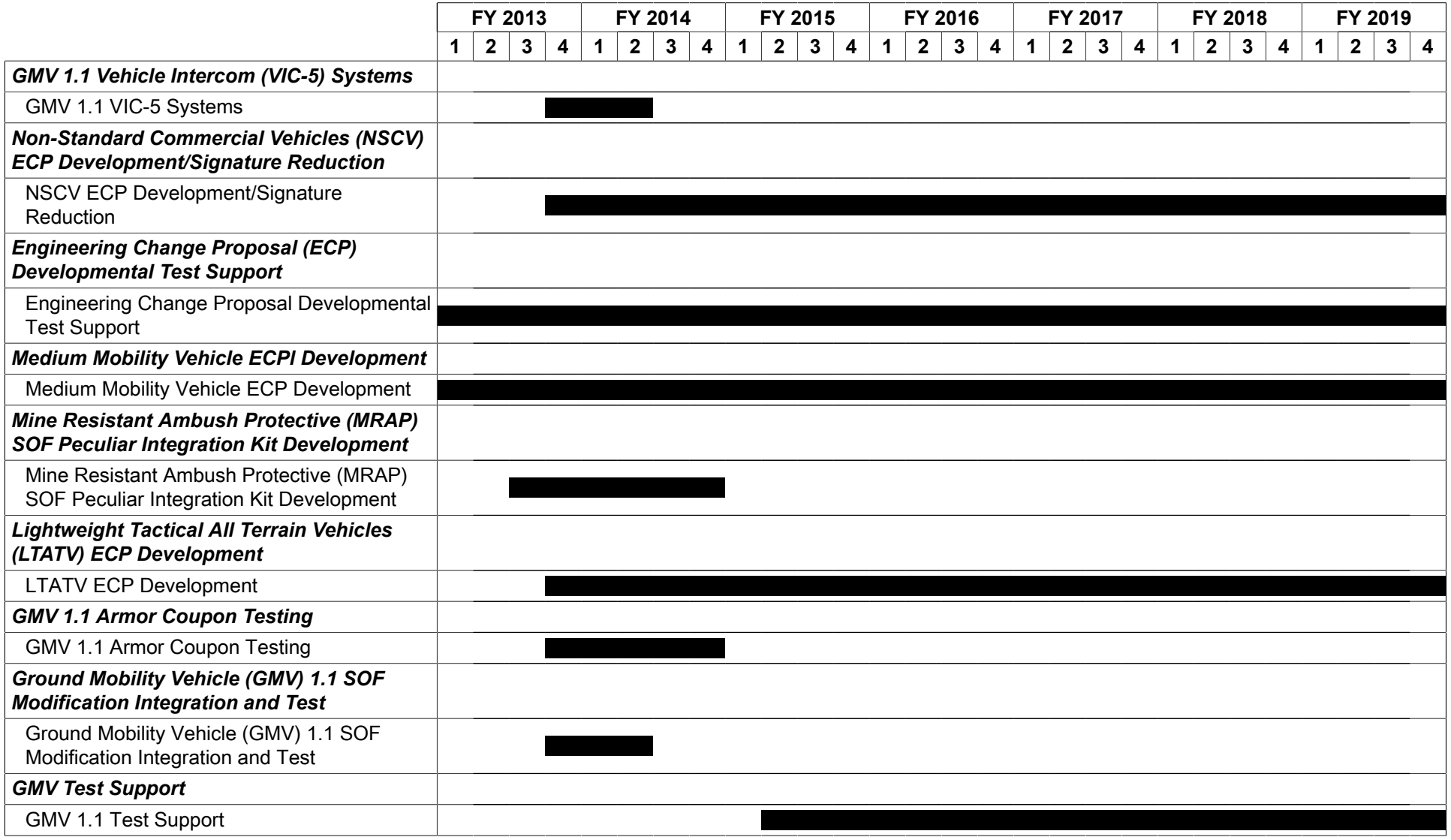
**D. Acquisition Strategy**

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.

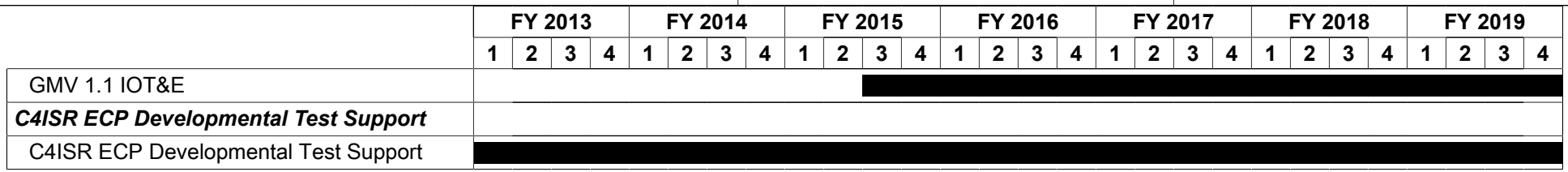
**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* | **Project (Number/Name)**<br>S910 / *SOF Tactical Vehicles* |



| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* | **Project (Number/Name)**<br>S910 / *SOF Tactical Vehicles* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160480BB / *SOF Tactical Vehicles* | **Project (Number/Name)**<br>S910 / *SOF Tactical Vehicles* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***GMV 1.1 Vehicle Intercom (VIC-5) Systems*** | | | | |
| GMV 1.1 VIC-5 Systems | 4 | 2013 | 2 | 2014 |
| ***Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction*** | | | | |
| NSCV ECP Development/Signature Reduction | 4 | 2013 | 4 | 2019 |
| ***Engineering Change Proposal (ECP) Developmental Test Support*** | | | | |
| Engineering Change Proposal Developmental Test Support | 1 | 2013 | 4 | 2019 |
| ***Medium Mobility Vehicle ECPI Development*** | | | | |
| Medium Mobility Vehicle ECP Development | 1 | 2013 | 4 | 2019 |
| ***Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development*** | | | | |
| Mine Resistant Ambush Protective (MRAP) SOF Peculiar Integration Kit Development | 3 | 2013 | 4 | 2014 |
| ***Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development*** | | | | |
| LTATV ECP Development | 4 | 2013 | 4 | 2019 |
| ***GMV 1.1 Armor Coupon Testing*** | | | | |
| GMV 1.1 Armor Coupon Testing | 4 | 2013 | 4 | 2014 |
| ***Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test*** | | | | |
| Ground Mobility Vehicle (GMV) 1.1 SOF Modification Integration and Test | 4 | 2013 | 2 | 2014 |
| ***GMV Test Support*** | | | | |
| GMV 1.1 Test Support | 2 | 2015 | 4 | 2019 |
| GMV 1.1 IOT&E | 3 | 2015 | 4 | 2019 |
| ***C4ISR ECP Developmental Test Support*** | | | | |
| C4ISR ECP Developmental Test Support | 1 | 2013 | 4 | 2019 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160481BB / *SOF Munitions* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 1.461 | 1.346 | - | - | - | - | - | - | - | - | - | 2.807 |
| S800: *Munitions Advanced Development* | 1.461 | 1.346 | - | - | - | - | - | - | - | - | - | 2.807 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

This program element provides for the advanced engineering operational system development and qualification efforts related to Special Operations Forces (SOF) peculiar munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). (Including bullet impact, fast cook off, fragment impact, slow cook off, sympathetic detonation, and shaped charge test.) Testing is in accordance with the United States Special Operations Command IM Strategic Plan. Funding also supports efforts to develop and improve Stand-Off Precision Guided Munitions (SOPGM); including the development and integration of improved warheads, seeker, guidance navigation and control systems operational flight software and missile delivery to meet SOF requirements.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 1.515 | - | - | - | - |
| Current President's Budget | 1.346 | - | - | - | - |
| Total Adjustments | -0.169 | - | - | - | - |
| • Congressional General Reductions | -0.121 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.002 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.046 | - | | | |

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160481BB / *SOF Munitions* |

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160481BB / *SOF Munitions* | Project (Number/Name)<br>S800 / *Munitions Advanced Development* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S800: *Munitions Advanced Development* | 1.461 | 1.346 | - | - | - | - | - | - | - | - | - | 2.807 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment

Non-Standard Materiel (NSM). Provided for Insensitive Munitions (IM) technology development and evaluation that allows SOF munitions to pass testing which included bullet impact, fragment impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Tests were in accordance with the United States Special Operations IM Testing Plan.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** NSM | 1.346 | - | - |
| ***FY 2013 Accomplishments:***<br>Conducted proof of principle and IM testing on various munitions. Continued full scale testing to satisfy safety requirements in Military Standard 2105C (DOD Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006). | | | |
| **Accomplishments/Planned Programs Subtotals** | 1.346 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/0203PYDEMO: *Ordnance Acquisition* | 33.773 | - | - | - | - | - | - | - | - | - | 66.154 |

**Remarks**

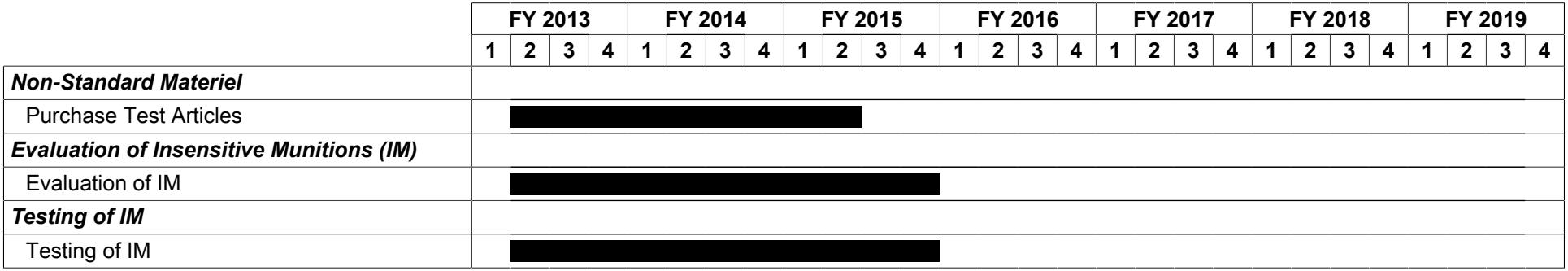
**D. Acquisition Strategy**

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160481BB / *SOF Munitions* | **Project (Number/Name)**<br>S800 / *Munitions Advanced Development* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160481BB / *SOF Munitions* | **Project (Number/Name)**<br>S800 / *Munitions Advanced Development* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***Non-Standard Materiel*** | | | | |
| Purchase Test Articles | 2 | 2013 | 2 | 2015 |
| ***Evaluation of Insensitive Munitions (IM)*** | | | | |
| Evaluation of IM | 2 | 2013 | 4 | 2015 |
| ***Testing of IM*** | | | | |
| Testing of IM | 2 | 2013 | 4 | 2015 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 170.648 | 25.166 | - | - | - | - | - | - | - | - | - | 195.814 |
| D615: *SOF Rotary Wing Aviation* | 170.648 | 25.166 | - | - | - | - | - | - | - | - | - | 195.814 |

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

**Note**

Beginning in FY 2014, SOF Rotary Wing Aviation, Program Element 1160482BB has been consolidated into SO Aviation Systems, SOCOM Program Element 1160403BB.

**A. Mission Description and Budget Item Justification**

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

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

**Change Summary Explanation**

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* |

Sequestration Impacts: Delays the A/MH-6M by one month and requires additional funding at the end of the program. The MH-47G program had to de-scope engine barrier filter efforts to accommodate the available FY 2013 funds. The impact of the reduction requires additional funding at the end of the program.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160482BB / *SOF Rotary Wing Aviation* | Project (Number/Name)<br>D615 / *SOF Rotary Wing Aviation* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D615: *SOF Rotary Wing Aviation* | 170.648 | 25.166 | - | - | - | - | - | - | - | - | - | 195.814 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

• A/MH-6M Block 3.0 Upgrade is necessary to restore structural, performance, and safety margins for the aircrews. An airframe structural modification will address structural failures due to high intensity, high gross weight operations, and a decade of battle damage. A main/tail rotor drive train and engine control effort will reduce airframe loads and restore sufficient safety and performance margins. An avionics upgrade Non-Developmental Item/Commercial Off-The-Shelf (NDI/COTS) will replace obsolescent components and provide improved battlefield situational awareness to the aircrews and customers necessary to support time sensitive mission requirements. This upgrade is critical in keeping A/MH-6M aircraft in the fight through the 2020's and likely beyond until a suitable replacement aircraft is available. The non-recurring effort supports development, fabrication of test hardware, qualification of components and system data items to support issuance of Government airworthiness releases for structural and software modifications.

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* | **Project (Number/Name)**<br>D615 / *SOF Rotary Wing Aviation* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| Continued development of cockpit upgrades, improved rotor systems, and upgrades to airframe. | | | |
| ***Title:*** MH-47 Modifications and Upgrades<br>***FY 2013 Accomplishments:***<br>Completed ANC technology demonstration and continued development of the APAS technology for the MH-47G. Began development of the Engine Barrier Filter for the MH-47G. | 2.699 | - | - |
| ***Title:*** MH-60 SOF Modernization Program<br>***FY 2013 Accomplishments:***<br>Continued systems engineering and platform integration efforts to include flight and qualification testing and test support. | 5.528 | - | - |
| ***Title:*** Degraded Visual Environment (DVE)<br>***FY 2013 Accomplishments:***<br>Initiated development, integration, and testing of DVE sensors solution with avionics backbone for ARSOA platforms. | 5.423 | - | - |
| **Accomplishments/Planned Programs Subtotals** | 25.166 | - | - |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC/0201RWUPGR: *Rotary Wing Upgrades and Sustainment* | 74.733 | - | - | - | - | - | - | - | - | - | - |

**Remarks**

**D. Acquisition Strategy**

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* | **Project (Number/Name)**<br>D615 / *SOF Rotary Wing Aviation* |

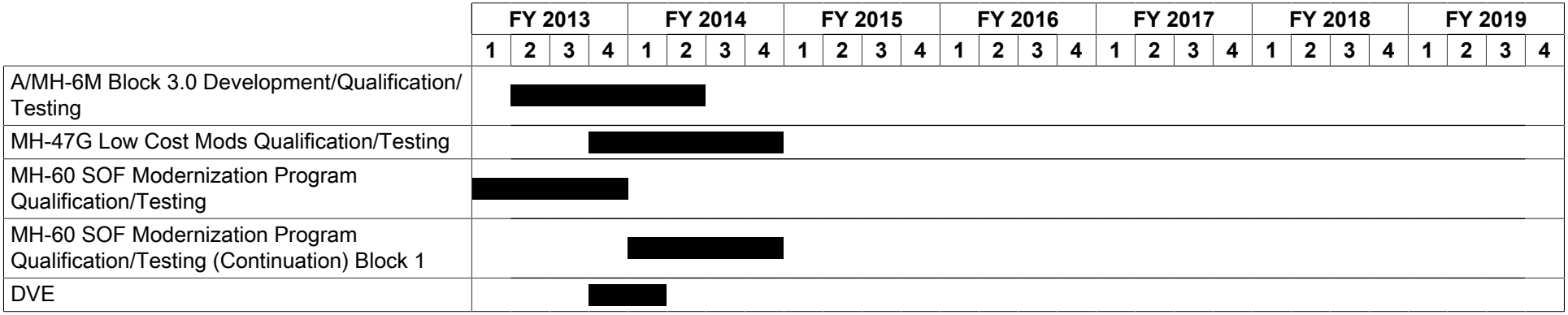
• MH-60M SOF Modernization Program - This supports the Systems Integration and Qualification efforts on the prototype MH-60M helicopter. This includes, but is not limited to, government and contractor flight test support, engineering analysis, documentation, and airworthiness substantiation. Contractor Flight test support will be conducted at the SOFSA by the incumbent contractor.

• DVE - This effort integrates and qualifies a solution to address a safety of flight issue while flying in degraded visual environments. A competitive source selection process will be conducted for the DVE solution which will procure, integrate and install components to provide real time “see through” imagery and heads up display of visual cues for obstacle avoidance and landing zone information during all phases of flight. DVE will increase MH-60 and MH-47 aircrew and customer survivability in a DVE.

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* | **Project (Number/Name)**<br>D615 / *SOF Rotary Wing Aviation* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160482BB / *SOF Rotary Wing Aviation* | **Project (Number/Name)**<br>D615 / *SOF Rotary Wing Aviation* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| A/MH-6M Block 3.0 Development/Qualification/Testing | 2 | 2013 | 2 | 2014 |
| MH-47G Low Cost Mods Qualification/Testing | 4 | 2013 | 4 | 2014 |
| MH-60 SOF Modernization Program Qualification/Testing | 1 | 2013 | 4 | 2013 |
| MH-60 SOF Modernization Program Qualification/Testing (Continuation) Block 1 | 1 | 2014 | 4 | 2014 |
| DVE | 4 | 2013 | 1 | 2014 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 136.135 | 66.263 | 28.534 | 57.905 | - | 57.905 | 19.624 | 13.214 | 7.543 | 7.340 | Continuing | Continuing |
| S0417: *Underwater Systems* | 136.135 | 66.263 | 22.849 | 45.823 | - | 45.823 | 10.955 | 8.261 | 3.070 | 4.947 | Continuing | Continuing |
| S1684: *Surface Craft* | 0.000 | - | 5.685 | 12.082 | - | 12.082 | 8.669 | 4.953 | 4.473 | 2.393 | Continuing | Continuing |

**MDAP/MAIS Code:**
**Other MDAP/MAIS Code(s):** ont

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

**Note**

Beginning in FY 2014 Maritime Systems represents the approved consolidation of Special Operations Forces (SOF) Surface Craft, Program Element (PE)1160484BB and SOF Underwater Systems, PE 1160483BB. The consolidated PE 1160483BB has been renamed Maritime Systems.

**A. Mission Description and Budget Item Justification**

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

The Underwater Systems project provides for engineering and manufacturing development and operational systems development of combat underwater submersibles and underwater support systems and equipment. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by SOF in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. This program received a FY 2013 Congressional Add.

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* |

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 26.405 | 18.325 | 43.795 | - | 43.795 |
| Current President's Budget | 66.263 | 28.534 | 57.905 | - | 57.905 |
| Total Adjustments | 39.858 | 10.209 | 14.110 | - | 14.110 |
| • Congressional General Reductions | -5.866 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.098 | - | | | |
| • Congressional Adds | 49.000 | - | | | |
| • Congressional Directed Transfers | - | 11.156 | | | |
| • Reprogrammings | -2.500 | - | | | |
| • SBIR/STTR Transfer | -0.678 | -0.947 | | | |
| • Other Adjustments | - | - | 14.110 | - | 14.110 |

**Change Summary Explanation**

Funding:

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

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

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

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

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

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | | | | | | | | | Date: March 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | | | | | R-1 Program Element (Number/Name)<br>PE 1160483BB / *Maritime Systems* | | | | Project (Number/Name)<br>S0417 / *Underwater Systems* | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2013** | **FY 2014** | **FY 2015 Base** | **FY 2015 OCO #** | **FY 2015 Total** | **FY 2016** | **FY 2017** | **FY 2018** | **FY 2019** | **Cost To Complete** | **Total Cost** |
| S0417: *Underwater Systems* | 136.135 | 66.263 | 22.849 | 45.823 | - | 45.823 | 10.955 | 8.261 | 3.070 | 4.947 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

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

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S0417 / *Underwater Systems* |

• Dry Deck Shelter (DDS): This project provides for an analysis of alternatives for Undersea Clandestine Insertion (UCI) of SOF forces for next generation system development and pre-planned product improvements, testing, and integration of specialized underwater systems to meet the unique requirements of SOF, and compatibility with the submarine fleet. The current DDS is a certified diving system which attaches to modified host submarines that provides for insertion of SOF forces and platforms. Future needs may include conducting product improvement efforts for the current DDS, as well as associated diver equipment for in-service submarine support systems, unmanned underwater vehicles, and diver equipment and follow on development effort for next generation system.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** SWCS (Block 1)<br>***FY 2013 Accomplishments:***<br>Conducted Critical Design Review for the SWCS and completed program rebaseline.<br>***FY 2014 Plans:***<br>Complete design and manufacturing of Engineering Development Model (EDM).<br>***FY 2015 Plans:***<br>Engineering Development Model (EDM) continues into the system-level development testing program phases. | 19.703 | 12.844 | 11.801 |
| ***Title:*** Dry Combat Submersibles (DCS)<br>***FY 2013 Accomplishments:***<br>Completed Phase I, Concept Design, and contract award for Phase II, Design and Build of User Operational Evaluation System (UOES) 3. Continued design and build efforts for UOES2. Initiated efforts to lease a commercial vehicle, the S301I for technical analysis and engineering evaluation to refine and validate SOF Embarkation Authority; commenced development of engineering and early operational assessment processes of test team and facilities; commenced development of UOES test strategy; commenced assessment of government furnished equipment maturity and SOF training and qualification for DCS. Procured power and energy technologies for risk reduction for DCS.<br>***FY 2014 Plans:***<br>Continue to design, construct, and test of commercial prototype submersibles. Initiate developmental test on UOES3.<br>***FY 2015 Plans:***<br>Commences developmental testing of UOES2 and Early Operational Assessment of UOES2 & 3. Continues development of acquisition documentation for MS B/C. | 45.411 | 10.005 | 34.022 |
| ***Title:*** Dry Deck Shelter (DDS)<br>***FY 2013 Accomplishments:***<br>Continued the UCI of SOF Analysis of Alternatives (AOA) for Large Volume Submarine Hosts and Submarine Large Ocean Interfaces to replace the DDS. | 1.149 | - | - |
| **Accomplishments/Planned Programs Subtotals** | 66.263 | 22.849 | 45.823 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S0417 / *Underwater Systems* |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC 1: *Underwater Systems* | 5.936 | 15.439 | 25.459 | - | 25.459 | 67.124 | 21.083 | 51.419 | 50.948 | Continuing | Continuing |

**Remarks**

**D. Acquisition Strategy**

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

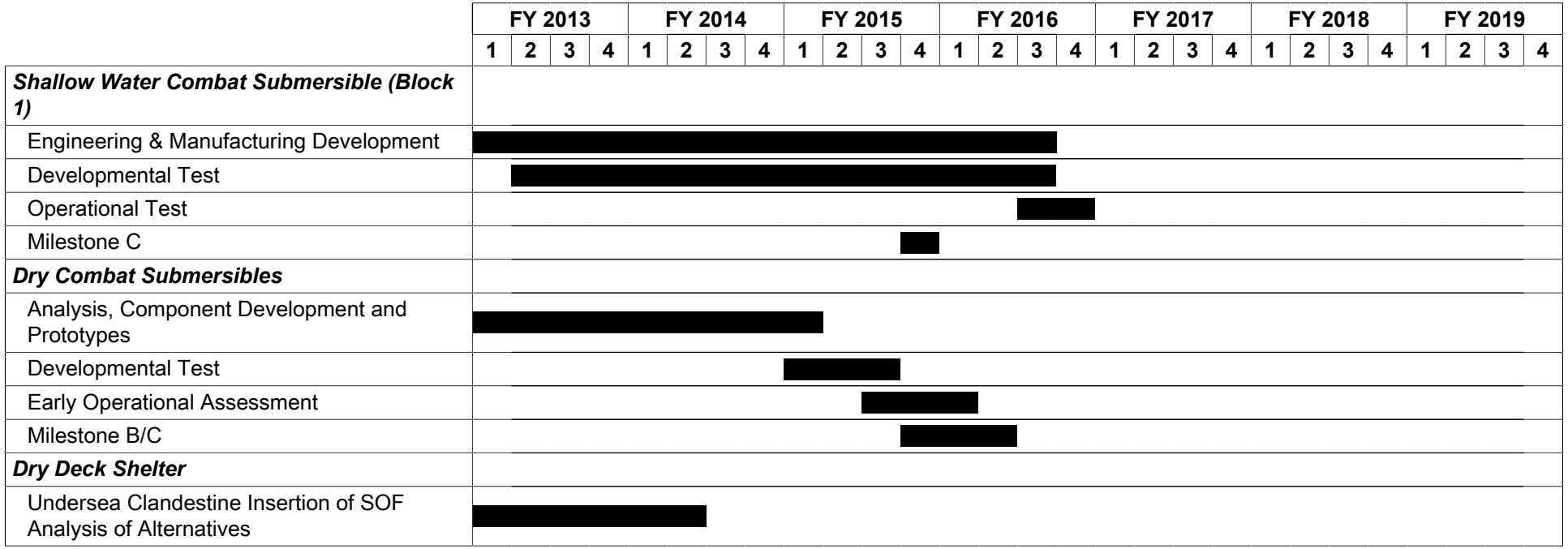
• DCS used Broad Agency Announcements for Research and Development contracts leveraging commercial technologies, practices and standards to design, build, test and deliver developmental vessels to refine and validate potential key performance parameters and attributes for the DCS requirements baseline.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

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S0417 / *Underwater Systems* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S0417 / *Underwater Systems* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***Shallow Water Combat Submersible (Block 1)*** | | | | |
| Engineering & Manufacturing Development | 1 | 2013 | 3 | 2016 |
| Developmental Test | 2 | 2013 | 3 | 2016 |
| Operational Test | 3 | 2016 | 4 | 2016 |
| Milestone C | 4 | 2015 | 4 | 2015 |
| ***Dry Combat Submersibles*** | | | | |
| Analysis, Component Development and Prototypes | 1 | 2013 | 1 | 2015 |
| Developmental Test | 1 | 2015 | 3 | 2015 |
| Early Operational Assessment | 3 | 2015 | 1 | 2016 |
| Milestone B/C | 4 | 2015 | 2 | 2016 |
| ***Dry Deck Shelter*** | | | | |
| Undersea Clandestine Insertion of SOF Analysis of Alternatives | 1 | 2013 | 2 | 2014 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | | | | | | | | | Date: March 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | | | | | R-1 Program Element (Number/Name)<br>PE 1160483BB / *Maritime Systems* | | | | Project (Number/Name)<br>S1684 / *Surface Craft* | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2013** | **FY 2014** | **FY 2015 Base** | **FY 2015 OCO #** | **FY 2015 Total** | **FY 2016** | **FY 2017** | **FY 2018** | **FY 2019** | **Cost To Complete** | **Total Cost** |
| S1684: *Surface Craft* | - | - | 5.685 | 12.082 | - | 12.082 | 8.669 | 4.953 | 4.473 | 2.393 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |
| **MDAP/MAIS Code:** ont | | | | | | | | | | | | |

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

**A. Mission Description and Budget Item Justification**

This project provides for engineering and manufacturing development, and operational systems development of light, medium, and heavy surface combatant craft and selected items of specialized equipment to meet the unique requirements of Special Operations Forces (SOF). This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to quickly respond to new requirements for surface craft and equipment. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

The Combatant Craft Medium (CCM) replaces the current rigid inflatable boat (RIB) and the MKV (Retired in FY12). This craft will be a reconfigurable, multi-mission surface tactical mobility craft with a primary mission of insertion and extraction of SOF in a medium threat environment. It will incorporate additional performance capabilities above current platform capabilities such as shock mitigation, low observability, improved maneuverability and SOF warfighting capabilities required to operate in future threat environments.

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

The Next Generation Combat Craft Forward Looking Infrared Radar (CCFLIR) Program provides SOF with day/night, high resolution, and additional spectrum imaging capabilities to augment existing optical and radar sensors. Technology insertion is needed to enhance the detection, recognition, identification, and tracking of small and near surface targets and ships.

The Next Generation Surface Systems (NGSRF) sub-project provides a rapid response capability to support SOF Combatant Craft Systems and subsystems. The NGSRF will explore solutions to support emerging requirements in support of SOF exercises and training for future missions. It provides technology refresh efforts to correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analyses of alternatives, pre-developmental risk reduction, and engineering analyses. Demonstrations and modifications may be made to support emerging capability enhancements such as but not limited to, Maritime

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

Craft Air Deliverable System BLOCK II, weapons mounts, sensors, enhanced communications and navigation subsystems, and other minor modifications to craft in support of future missions. Solutions may be Commercial-Off-The-Shelf (COTS) solutions, other agency solutions or new solutions.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| ***Title:*** Combatant Craft Medium (CCM)<br>***FY 2014 Plans:***<br>Integrate newest weapon and sensor technologies into the CCM craft.<br>***FY 2015 Plans:***<br>Completes Operational Testing and continues development and integration of sub-systems including weapons and situational awareness systems. | - | 3.296 | 4.898 |
| ***Title:*** Combatant Craft Heavy (CCH)<br>***FY 2014 Plans:***<br>Continue studies with craft design, development, and testing. Continue to test SEALION and perform modifications necessary to field an operational craft.<br>***FY 2015 Plans:***<br>Continues development and integration of advanced technologies including situational awareness, survivability, weapons, navigation, communication. | - | 0.750 | 2.215 |
| ***Title:*** Next Generation Combatant Craft Forward Looking Infrared Radar (CCFLIR)<br>***FY 2014 Plans:***<br>Complete market research and initiate plans to develop, test, and evaluate commercial-off-the-shelf (COTS) solution for Next Generation CCFLIR systems. Develop acquisition strategy and initiate program with plan to incrementally fund purchase of prototypes.<br>***FY 2015 Plans:***<br>Continues required documentation and completes purchase of up to three prototype units for development testing. Conducts testing, plans and initiates integration with combatant craft systems. | - | 1.328 | 1.799 |
| ***Title:*** Next Generation Surface System (NGSRF)<br>***FY 2014 Plans:***<br>Initiate studies and advanced technology development, conduct risk reduction activities, and refine requirements and potential solutions for next generation of combatant craft systems and subsystems.<br>***FY 2015 Plans:***<br>Identifies and evaluates candidate solutions for capability enhancements and insertion into Combatant Craft Systems. Prioritizes and plans, technology development efforts via Cooperative Research and Development Agreements, SBIR, and JCTD. Conducts | - | 0.311 | 3.170 |

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

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---|---|---|
| technology demonstration and development for the advancement/enhancement of SOF Combatant Craft Systems, subsystems, and technologies such as, but not limited to: Maritime Craft Air Delivery System Block II, Weapons integration, survivability, signatures, and shock and vibration systems. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 5.685 | 12.082 |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC 1: *Combatant Craft Systems* | - | 32.753 | 51.937 | - | 51.937 | 42.750 | 66.595 | 11.692 | 17.270 | Continuing | Continuing |

**Remarks**

N/A

**D. Acquisition Strategy**

CCM acquisition strategy is a competition using a two-phase source selection process. Phase I involved a Small Business Set-Aside competition for two vendors to design, build and deliver test articles. Phase II will select a single vendor to provide a fully integrated baseline craft system for test and evaluation with options for production, engineering support and contractor logistic support. Acquisition strategies for other craft may be based on the rapid acquisition of available non-developmental COTS/Government-Off-The-Shelf craft.

CCH acquisition strategy is to transition the two advanced technology craft from Navy to SOF operations. SOF modifications are being performed and operational testing will be completed before fielding the SEALION craft in FY 2014. These efforts will be performed in-house with some support from other government agencies for engineering experts. Feasibility studies will continue in-house with support from other government agencies or existing contract services to pursue SOF-peculiar requirements for other CCH variants.

Sole source contract was awarded with original equipment manufacturer for developmental modification to SEALION. Developing long term sustainment strategy to and procure additional craft in future years.

Next Generation CCFLIR acquisition strategy will conduct full and open competition for next generation systems to support the Combatant Craft Assault, CCM and CCH systems.

NGSRF will provide for efforts of technology insertion and upgrades of craft systems, subsystems, and future craft acquisition planning. This effort will consider all acquisition strategies available while applying Better Buying Power practices.

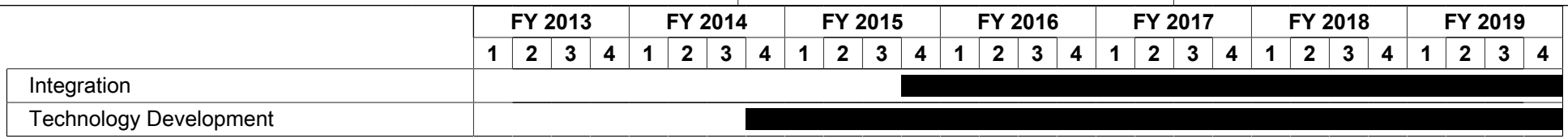
| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S1684 / *Surface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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***Combatant Craft Medium*** | | | | |
| Developmental Test/Operational Test | 4 | 2013 | 1 | 2014 |
| Proposal, Source Selection & Final Down Select | 1 | 2013 | 2 | 2014 |
| Low Rate Initial Production | 2 | 2014 | 1 | 2015 |
| Operational Evaluation | 2 | 2015 | 3 | 2015 |
| Initial Operational Capability | 3 | 2015 | 3 | 2015 |
| Weapons Development, Survivability | 2 | 2014 | 4 | 2018 |
| ***Combatant Craft Heavy*** | | | | |
| Refurbish SEALION II | 1 | 2013 | 4 | 2013 |
| Test and Evaluation | 4 | 2013 | 2 | 2014 |
| Fielding & Deployment Release | 2 | 2014 | 2 | 2014 |
| C4I and Weapons Integration | 1 | 2014 | 4 | 2019 |
| ***Next Generation FLIR*** | | | | |
| Risk Reduction Activities | 3 | 2014 | 1 | 2015 |
| Program Planning & Documentation | 2 | 2014 | 4 | 2016 |
| Market Research | 2 | 2014 | 3 | 2014 |
| Request for Proposal | 4 | 2014 | 4 | 2014 |
| Development Down Select/Test | 1 | 2014 | 3 | 2016 |
| Production Award | 3 | 2016 | 3 | 2016 |
| ***Next Generation Surface Systems*** | | | | |
| Risk Reduction Activities | 2 | 2014 | 4 | 2019 |
| Market Research | 2 | 2014 | 4 | 2019 |
| Prioritize/Plan NG Technologies | 2 | 2014 | 4 | 2019 |

| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160483BB / *Maritime Systems* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| Subsystem Development | 3 | 2014 | 1 | 2019 |
| Integration | 4 | 2015 | 4 | 2019 |
| Technology Development | 4 | 2014 | 4 | 2019 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160484BB / *SOF Surface Craft* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 48.083 | 7.713 | - | - | - | - | - | - | - | - | - | 55.796 |
| S1684: *Surface Craft* | 48.083 | 7.713 | - | - | - | - | - | - | - | - | - | 55.796 |

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

**Note**

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

**A. Mission Description and Budget Item Justification**

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

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 8.573 | - | - | - | - |
| Current President's Budget | 7.713 | - | - | - | - |
| Total Adjustments | -0.860 | - | - | - | - |
| • Congressional General Reductions | -0.585 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.012 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.263 | - | | | |

**Change Summary Explanation**

Funding:

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

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160484BB / *SOF Surface Craft* |

Sequestration Impacts: Reduced risk reduction for communications systems for the combatant craft and increased integration risk onto the platform.

Schedule: None.

Technical: None.

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | | Date: March 2014 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 7 | R-1 Program Element (Number/Name)<br>PE 1160484BB / *SOF Surface Craft* | Project (Number/Name)<br>S1684 / *Surface Craft* | |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1684: *Surface Craft* | 48.083 | 7.713 | - | - | - | - | - | - | - | - | - | 55.796 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

**A. Mission Description and Budget Item Justification**

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

• The Combatant Craft Medium (CCM) replaces the current rigid inflatable boat (RIB) and the MKV (retired in FY12). This craft will be a reconfigurable, multi-mission surface tactical mobility craft with a primary mission of insertion and extraction of SOF in a medium threat environment. It will incorporate additional performance capabilities above current platform capabilities such as shock mitigation, low observability, improved maneuverability and SOF warfighting capabilities required to operate in future threat environments.

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

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

| Exhibit R-2A, RDT&E Project Justification: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160484BB / *SOF Surface Craft* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |

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

| Line Item | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • PROC 1: *Combatant Craft Systems* | 38.655 | - | - | - | - | - | - | - | - | - | - |

**Remarks**

**D. Acquisition Strategy**

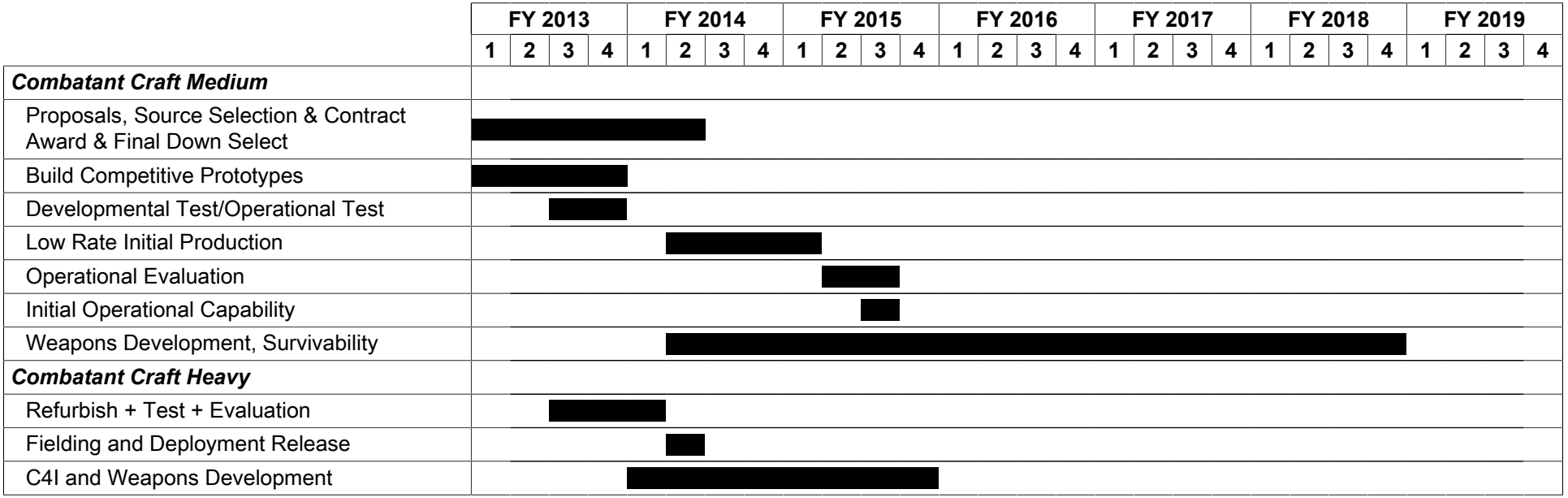
• CCM acquisition strategy is a competition using a two-phase source selection process. Phase I involved a Small Business Set-Aside competition for two companies to design, build and deliver test articles. Phase II will select a single company to provide a fully integrated baseline craft system for test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

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

**E. Performance Metrics**

N/A

| Exhibit R-4, RDT&E Schedule Profile: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160484BB / *SOF Surface Craft* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2015 United States Special Operations Command | | Date: March 2014 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 7 | **R-1 Program Element (Number/Name)**<br>PE 1160484BB / *SOF Surface Craft* | **Project (Number/Name)**<br>S1684 / *Surface Craft* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events by Sub Project** | **Quarter** | **Year** | **Quarter** | **Year** |
| ***Combatant Craft Medium*** | | | | |
| Proposals, Source Selection & Contract Award & Final Down Select | 1 | 2013 | 2 | 2014 |
| Build Competitive Prototypes | 1 | 2013 | 4 | 2013 |
| Developmental Test/Operational Test | 3 | 2013 | 4 | 2013 |
| Low Rate Initial Production | 2 | 2014 | 1 | 2015 |
| Operational Evaluation | 2 | 2015 | 3 | 2015 |
| Initial Operational Capability | 3 | 2015 | 3 | 2015 |
| Weapons Development, Survivability | 2 | 2014 | 4 | 2018 |
| ***Combatant Craft Heavy*** | | | | |
| Refurbish + Test + Evaluation | 3 | 2013 | 1 | 2014 |
| Fielding and Deployment Release | 2 | 2014 | 2 | 2014 |
| C4I and Weapons Development | 1 | 2014 | 4 | 2015 |

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160489BB / *Global Video Surveillance Activities* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 31.959 | 6.999 | 3.304 | 3.788 | - | 3.788 | 3.186 | 2.903 | 3.240 | 3.901 | Continuing | Continuing |
| S500C: *Global Video Surveillance Activities* | 31.959 | 6.999 | 3.304 | 3.788 | - | 3.788 | 3.186 | 2.903 | 3.240 | 3.901 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the Military Intelligence Program. Details are provided under separate cover.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 7.620 | 3.304 | 6.599 | - | 6.599 |
| Current President's Budget | 6.999 | 3.304 | 3.788 | - | 3.788 |
| Total Adjustments | -0.621 | - | -2.811 | - | -2.811 |
| • Congressional General Reductions | -0.611 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | -0.010 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Other Adjustments | - | - | -2.811 | - | -2.811 |

**Change Summary Explanation**

Funding:

FY2013: Net decrease of -$0.621 million is due to sequestration reductions (-0.611 million) and congressional rescissions (-$0.010 million).

FY2014: None.

FY2015: Decrease of -$2.811 million is due to a realignment to higher command priorities.

Schedule: None.

Technical: None.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160490BB / *Operational Enhancements Intelligence* |

| COST ($ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 8.479 | 12.209 | 14.446 | 16.225 | - | 16.225 | 15.225 | 16.387 | 16.727 | 17.044 | Continuing | Continuing |
| S500D: *Operational Enhancements Intelligence* | 8.479 | 12.209 | 14.446 | 16.225 | - | 16.225 | 15.225 | 16.387 | 16.727 | 17.044 | Continuing | Continuing |

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

**A. Mission Description and Budget Item Justification**

This program element is part of the Military Intelligence Program. This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

| B. Program Change Summary ($ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 16.386 | 16.021 | 16.225 | - | 16.225 |
| Current President's Budget | 12.209 | 14.446 | 16.225 | - | 16.225 |
| Total Adjustments | -4.177 | -1.575 | - | - | - |
| • Congressional General Reductions | -1.137 | - | | | |
| • Congressional Directed Reductions | -3.000 | -1.575 | | | |
| • Congressional Rescissions | -0.018 | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | -0.022 | - | | | |
| • SBIR/STTR Transfer | - | - | | | |

**Change Summary Explanation**

Funding:

FY2013: Net decrease of -$4.177 million is due to sequestration reductions (-$1.137 million), congressional reduction for excess of prior year funds (-$3.000 million), congressional rescissions (-$0.018 million), and reprogrammings (-$0.022 million).

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

FY2015: None.

Schedule: None.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command | Date: March 2014 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development* | **R-1 Program Element (Number/Name)**<br>PE 1160490BB / *Operational Enhancements Intelligence* |

Technical: None.