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

R-1 ITEM NOMENCLATURE

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

PE 1160403BB: Special Operations Aviation Systems Advanced Development

**DATE:** February 2011

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

| COST (\$ in Millions)                              | FY 2010 | FY 2011 | FY 2012<br>Base | FY 2012<br>OCO | FY 2012<br>Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To<br>Complete | Total Cost |
|--|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| Total Program Element                              | 64.108  | 68.691  | 89.382          | -              | 89.382           | 93.596  | 60.571  | 22.613  | 11.642  | Continuing          | Continuing |
| SF100: SO Aviation Systems<br>Advanced Development | 64.108  | 68.691  | 89.382          | -              | 89.382           | 93.596  | 60.571  | 22.613  | 11.642  | Continuing          | Continuing |

## A. Mission Description and Budget Item Justification

This program element provides for the development, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; low probability of intercept/low probability of detection, terrain following/terrain avoidance radar; Precision Strike Package for MC-130W Multi-Mission Modification, AC-130H Recapitalization, and other SOF airborne platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation, target detection, and identification technologies; digital broadcast capabilities; and aerial refueling.

| B. Program Change Summary (\$ in Millions)            | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget                           | 72.308  | 68.691  | 76.041       | -           | 76.041        |
| Current President's Budget                            | 64.108  | 68.691  | 89.382       | -           | 89.382        |
| Total Adjustments                                     | -8.200  | -       | 13.341       | -           | 13.341        |
| <ul> <li>Congressional General Reductions</li> </ul>  |         | -       |              |             |               |
| <ul> <li>Congressional Directed Reductions</li> </ul> |         | -       |              |             |               |
| <ul> <li>Congressional Rescissions</li> </ul>         | -       | -       |              |             |               |
| <ul> <li>Congressional Adds</li> </ul>                |         | -       |              |             |               |
| <ul> <li>Congressional Directed Transfers</li> </ul>  |         | -       |              |             |               |
| <ul> <li>Reprogrammings</li> </ul>                    | -6.072  | -       |              |             |               |
| SBIR/STTR Transfer                                    | -2.128  | -       |              |             |               |
| <ul> <li>Other Adjustment</li> </ul>                  | -       | -       | 13.341       | -           | 13.341        |

# **Change Summary Explanation**

Funding:

FY 2010 Decrease of \$8.200 million is due to a reprogramming to higher command priorities (-\$0.894), Internal Reprogramming Request (FY 10-31 IR, dated March 2010) to support both Helicopter Cable Warning and Obstacle Avoidance System (-\$1.195 million), and EC-130J Multi-Mission Upgrades (-\$3.983 million) and a transfer of funds to Small Business Innovative Research (-\$2.128).

FY 2011 None.

| Exhibit R-2. RDT&E Budget ttem Justification: PB 2012 United States Special Operations Command  APPROPRIATION/BUDGET ACTIVITY  4007. Research, Development, Test & Evaluation, Defense-Wide  BA 7: Operational Systems Development  FY 2012 Net increase of \$13.341 million is due to an increase for Precision Strike Package (\$21.224 million), increase for EC-130 Upgrades (\$0.721 million), a decrease for Economic Adjustments (-\$0.294 million) and a decrease for SOF C-130 Avionics Modifications (-\$8.310 million). |  | 01102/10011122                            |                                |
|--|--|---|--------------------------------|
| 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development  FY 2012 Net increase of \$13.341 million is due to an increase for Precision Strike Package (\$21.224 million), increase for EC-130 Upgrades (\$0.721 million), a  | Exhibit R-2, RDT&E Budget Item Justification: PB 2012 United Sta | ates Special Operations Command           | DATE: February 2011            |
| 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development  FY 2012 Net increase of \$13.341 million is due to an increase for Precision Strike Package (\$21.224 million), increase for EC-130 Upgrades (\$0.721 million), a  | APPROPRIATION/BUDGET ACTIVITY                                    | R-1 ITEM NOMENCI ATURE                    | •                              |
| BA 7: Operational Systems Development  FY 2012 Net increase of \$13.341 million is due to an increase for Precision Strike Package (\$21.224 million), increase for EC-130 Upgrades (\$0.721 million), a   |  |   | n Systems Advanced Development |
| FY 2012 Net increase of \$13.341 million is due to an increase for Precision Strike Package (\$21.224 million), increase for EC-130 Upgrades (\$0.721 million), a  |  | P L 110040300. Special Operations Aviatio | n Systems Advanced Development |
|  | BA 7: Operational Systems Development                            |   |                                |
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| Exhibit R-2A, RDT&E Project Ju   | istification: PE | 3 2012 Unite | d States Sp                              | ecial Operati  | ons Comma        | nd  |         |         | <b>DATE:</b> Febi | ruary 2011          |            |
|--|------------------|--------------|--|----------------|------------------|---|---------|---------|-------------------|---------------------|------------|
| APPROPRIATION/BUDGET ACT 0400: Research, Development, Te BA 7: Operational Systems Devel | Vide             | PE 116040    | IOMENCLAT<br>3BB: Special<br>dvanced Dev | Operations     | Aviation         | PROJECT SF100: SO Aviation Systems Advanced Development |         |         |                   |                     |            |
| COST (\$ in Millions)  | FY 2010          | FY 2011      | FY 2012<br>Base                          | FY 2012<br>OCO | FY 2012<br>Total | FY 2013   | FY 2014 | FY 2015 | FY 2016           | Cost To<br>Complete | Total Cost |
| SF100: SO Aviation Systems<br>Advanced Development                                       | 64.108           | 68.691       | 89.382                                   | -              | 89.382           | 93.596  | 60.571  | 22.613  | 11.642            | Continuing          | Continuing |
| Quantity of RDT&E Articles   |                  |              |  |                |                  |   |         |         |                   |                     |            |

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

This project provides for the investigation, evaluation, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: SOF specific avionics; low probability of intercept/low probability of detection (LPI/LPD), terrain following/terrain avoidance (TF/TA) radar; Precision Strike Package (PSP) for MC-130W Multi-Mission Modification, AC-130H replacement aircraft, and other SOF platforms; digital terrain elevation data and electronic order of battle; digital maps; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation, target detection and identification technologies; digital broadcast capability; and aerial refueling.

- SOF C-130 Avionics Modifications. Provides for development necessary to maintain current SOF-unique capabilities for SOF C-130 aircraft. Includes the fit/function/interface replacement of the mission computers on the MC-130H and AC-130U aircraft due to obsolescence issues with the current AP-102 mission computer.
- EC-130J Commando Solo Upgrades. Provides for integration of SOF-unique implementation of the C-130J block cycle upgrade as installed on the EC-130J Commando Solo aircraft and development of digital broadcast capabilities.
- PSP MC-130W Multi-Mission Modification. Fulfills an urgent combat requirement to rapidly arm and field multi-mission precision strike platforms. Provides an armed over-watch capability including sensors, communication systems, precision guided munitions, and a single medium-caliber gun. An interim kit was fielded and funded under a Combat Mission Needs Statement. The MC-130W will return to its primary mobility role once PSP is fielded on the new AC-130H aircraft.
- PSP for SOF. Supports systems engineering, analysis, development, and enhancement of the baseline PSP for later integration and installation onto host MC-130J aircraft provided by the U.S. Air Force for the AC-130H replacement aircraft, as well as other SOF platforms. Missions for the AC-130H aircraft include, but are not limited to, Close Air Support (CAS), Air Interdiction, Armed Reconnaissance, Escort, and Force Protection Integrated Base Defense. PSP is modular, scalable, and platform neutral, and includes mission management, sensors, and weapons.
- C-130 Terrain Following Radar System. Integrates a TF/TA radar with an on-board processor to provide a multi-mode terrain following capability. This system is targeted for the MC-130J, MC-130W, and MC-130H platforms.
- Acquisition Development Support. This funding is required to support systems engineering, analysis, and integration. Primary use of funds is to examine commonality and interoperability across systems. Funding will be used in a multitude of avenues across systems to support cost-benefit analysis; provide additional

| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States Sp | ecial Operations Command                  | DATE: February 2011 |                           |
|---|---|---------------------|---------------------------|
| APPROPRIATION/BUDGET ACTIVITY                                       | R-1 ITEM NOMENCLATURE                     | PROJECT             |                           |
| 0400: Research, Development, Test & Evaluation, Defense-Wide        | PE 1160403BB: Special Operations Aviation | SF100: SO           | Aviation Systems Advanced |
| BA 7: Operational Systems Development                               | Systems Advanced Development              | Developme           | nt                        |

test support; and further reduce cost, schedule, and technical risk. As required, funds will support manpower costs for experts needed to meet certification, safety, reliability, and other requirements required by Office of the Secretary of Defense, Acquisition, Technology and Logistics, as well as commitments for joint programs.

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

| B. Accomplishments/Planned Programs (\$ in Millions)   | FY 2010 | FY 2011 | FY 2012<br>Base | FY 2012<br>OCO | FY 2012<br>Total |
|--|---------|---------|-----------------|----------------|------------------|
| Title: SOF C-130 Avionics Modifications  | 4.234   | 24.542  | 8.550           | -              | 8.550            |
| FY 2010 Accomplishments: Initiated development and integration of aircraft modifications to maintain SOF-unique capabilities, to include MC-130H and AC-130U mission computer replacement.   |         |         |                 |                |                  |
| FY 2011 Plans: Continues development and integration of aircraft modifications to maintain SOF-unique capabilities, which will be executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence dates, to include MC-130H and AC130U mission computer replacement.     |         |         |                 |                |                  |
| FY 2012 Base Plans: Continue development and integration of aircraft modifications to maintain SOF-unique capabilities, which will be executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence dates, to include MC-130H and AC130U mission computer replacement. |         |         |                 |                |                  |
| Title: EC-130J Commando Solo Upgrades  | 0.949   | 0.581   | 1.782           | -              | 1.782            |
| FY 2010 Accomplishments: Continued development and integration of SOF-unique implementation of the C-130J Block Cycle 7.0 upgrade as installed on the EC-130J Commando Solo aircraft.  |         |         |                 |                |                  |
| FY 2011 Plans: Develops and integrates digital broadcast capability for incorporation on EC-130J.  |         |         |                 |                |                  |
| FY 2012 Base Plans: Develop and integrate digital broadcast capability for incorporation on EC-130J.   |         |         |                 |                |                  |
| Title: Precision Strike Package (PSP) MC-130W Multi-Mission Modification   | 26.247  | -       | -               | -              | -                |
| FY 2010 Accomplishments:   |         |         |                 |                |                  |

| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States  | S Special Operations Command   |   | D       | ATE: Febru      | ary 2011       |                  |  |  |
|---|--|---|---------|-----------------|----------------|------------------|--|--|
| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development  | R-1 ITEM NOMENCLATURE PE 1160403BB: Special Operations Avia Systems Advanced Development | PROJECT  viation SF100: SO Aviation Systems Advanced  Development |         |                 |                |                  |  |  |
| B. Accomplishments/Planned Programs (\$ in Millions)  |  | FY 2010   | FY 2011 | FY 2012<br>Base | FY 2012<br>OCO | FY 2012<br>Total |  |  |
| Continued integration and testing for offensive systems, sensors, and Strike Package (PSP) on MC-130W aircraft.   | d mission management of the Precision  |   |         |                 |                |                  |  |  |
| Title: Precision Strike Package (PSP) for SOF   |  | -   | 4.279   | 26.193          | -              | 26.193           |  |  |
| FY 2011 Plans: Initiates risk reduction, development and integration of the PSP on Mimprovements.   | 1C-130J aircraft, and continue system  |   |         |                 |                |                  |  |  |
| FY 2012 Base Plans: Continue development, integration, risk reduction, test and system in   | nprovement of the PSP on MC-130J aircraft.   |   |         |                 |                |                  |  |  |
| Title: C-130 Terrain Following Radar System   |  | -   | 1.990   | 32.536          | -              | 32.536           |  |  |
| FY 2011 Plans: Initiates development and integration of the Terrain Following Radar   | System onto SOF MC-130 platforms.  |   |         |                 |                |                  |  |  |
| FY 2012 Base Plans: Continue development and integration of the Terrain Following Rada  | ar System onto SOF MC-130 platforms.   |   |         |                 |                |                  |  |  |
| Title: Acquisition Development Support  |  | -   | 2.094   | -               | -              | -                |  |  |
| FY 2011 Plans: Conducts engineering, analysis and integration support across a mu and interoperability across systems; to support cost-benefit analyses further reduce cost, schedule, and technical risk.                            |  |   |         |                 |                |                  |  |  |
| Title: SOF Common Terrain Following/Terrain Avoidance (TF/TA) (S  | Silent Knight) Radar   | 32.678  | 35.205  | 20.321          | -              | 20.321           |  |  |
| FY 2010 Accomplishments: Continued SOF common Engineering and Manufacturing Development MH-47/60. Continued prototype integration and testing. Began development for development/qualification flight test, platform integration, and | elopmental contractor flight testing and kit   |   |         |                 |                |                  |  |  |
| FY 2011 Plans: Continues EMD of SOF Common TF/TA radar. Continue contractor developmental flight testing.   | flight testing and platform integration . Begin  |   |         |                 |                |                  |  |  |
| FY 2012 Base Plans:   |  |   |         |                 |                |                  |  |  |

| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States Sp | pecial Operations Command                 | DATE: February 2011                 |
|---|---|-------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY                                       | R-1 ITEM NOMENCLATURE                     | PROJECT                             |
| 0400: Research, Development, Test & Evaluation, Defense-Wide        | PE 1160403BB: Special Operations Aviation | SF100: SO Aviation Systems Advanced |
| BA 7: Operational Systems Development                               | Systems Advanced Development              | Development                         |

| B. Accomplishments/Planned Programs (\$ in Millions)   | FY 2010 | FY 2011 | FY 2012<br>Base | FY 2012<br>OCO | FY 2012<br>Total |
|--|---------|---------|-----------------|----------------|------------------|
| Continue Engineering and Manufacturing Development (EMD) of SOF Common TF/TA radar. Continue developmental flight testing. |         |         |                 |                |                  |
| Accomplishments/Planned Programs Subtotals   | 64.108  | 68.691  | 89.382          | -              | 89.382           |

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

|                              |         |         | FY 2012     | FY 2012 | FY 2012      |         |         |         |         | Cost To         |                   |
|------------------------------|---------|---------|-------------|---------|--------------|---------|---------|---------|---------|-----------------|-------------------|
| <u>Line Item</u>             | FY 2010 | FY 2011 | <u>Base</u> | OCO     | <u>Total</u> | FY 2013 | FY 2014 | FY 2015 | FY 2016 | <b>Complete</b> | <b>Total Cost</b> |
| • PROC1: C-130 MODIFICATIONS | 242.753 | 22.500  | 19.665      | 4.800   | 24.465       | 16.723  | 13.061  | 40.836  | 41.555  | Continuing      | Continuing        |
| • PROC2: PRECISION STRIKE    | 0.000   | 0.000   | 0.000       | 0.000   | 0.000        | 97.194  | 191.928 | 228.463 | 309.826 | Continuing      | Continuing        |
| PACKAGE                      |         |         |             |         |              |         |         |         |         |                 |                   |

#### **D. Acquisition Strategy**

- SOF C-130 Avionics Modifications. Develop a Form, Fit, Function replacement mission computer and rehost existing Operational Flight Program and Fire Control Software. Effort is being executed via an incremental acquisition strategy based on SOF C-130 avionics obsolescence mitigation need dates.
- EC-130J Commando Solo Upgrades. Block 7.0 is being procured by the Air Force program office using existing development and production contracts. Digital broadcast capabilities are being procured through an incremental acquisition strategy to incorporate readily available equipment into the EC-130J aircraft.
- Precision Strike Package (PSP) MC-130W Multi-Mission Modification. Executing incremental acquisition strategy with development, integration and testing for offensive systems, sensors, and mission management.
- PSP for SOF. Executing incremental acquisition strategy to integrate and test the PSP on MC-130J aircraft provided by the U.S. Air Force and other SOF platforms.
- C-130 Terrain Following Radar System. Award competitive engineering and manufacturing development (EMD) contract for integration and test.
- Acquisition Development Support. Conduct engineering, analysis and integration support across a multitude of systems to examine commonality and interoperability issues to ensure cost, schedule and technical issues are addressed.
- SOF CommonTerrain Following/Terrain Avoidance (Silent Knight) Radar. Executing incremental acquisition strategy with the MH-47G as the lead platform. A competitive EMD contract with an option for six low-rate initial production (LRIP) units was awarded to Raytheon in FY 2007. MH-60M group A design and integration effort was awarded in FY 2010. Follow-on platform group A design and integration efforts will be awarded. Group A production and installation contracts will be awarded. A follow-on radar production contract using LRIP price points will be awarded.

| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States S   | pecial Operations Command  | DATE: February 2011                                     |
|--|--|---|
| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development | R-1 ITEM NOMENCLATURE PE 1160403BB: Special Operations Aviation Systems Advanced Development | PROJECT SF100: SO Aviation Systems Advanced Development |
| E. Performance Metrics N/A   |  |   |
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 United States Special Operations Command

APPROPRIATION/BUDGET ACTIVITY

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

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 1160403BB: Special Operations Aviation

Systems Advanced Development

**PROJECT** SF100: SO Aviation Systems Advanced

**DATE:** February 2011

Development

| Product Development (\$ in Millions)                                 |                              |                                      |                              | FY 2011 |               |        | 2012<br>ise   |      | 2012<br>CO    | FY 2012<br>Total |                     |            |                                |
|--|------------------------------|--------------------------------------|------------------------------|---------|---------------|--------|---------------|------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item   | Contract<br>Method<br>& Type | Performing<br>Activity & Location    | Total Prior<br>Years<br>Cost | Cost    | Award<br>Date | Cost   | Award<br>Date | Cost | Award<br>Date | Cost             | Cost To<br>Complete | Total Cost | Target<br>Value of<br>Contract |
| SOF C-130 Avionics<br>Modifications                                  | C/TBD                        | TBD:TBD                              | 4.234                        | 21.084  | Jun 2011      | 8.550  | May 2012      | -    |               | 8.550            | Continuing          | Continuing |                                |
| EC-130J Commando Solo<br>Upgrades                                    | C/CPIF                       | Lockheed Martin<br>Aero:Marietta, GA | 2.076                        | 0.581   | Jun 2011      | 1.782  | Dec 2011      | -    |               | 1.782            | Continuing          | Continuing |                                |
| Precision Strike Package for SOF                                     | C/TBD                        | TBD:TBD                              | -                            | 2.786   | Mar 2011      | 15.742 | Mar 2012      | -    |               | 15.742           | Continuing          | Continuing |                                |
| SOF Common TF/TA (Silent<br>Knight) Radar - Prime Mission<br>Product | C/CPIF                       | Raytheon:Dallas, TX                  | 73.204                       | 3.511   | Dec 2010      | 0.936  | Jun 2012      | -    |               | 0.936            | Continuing          | Continuing |                                |
| SOF Common TF/TA (Silent<br>Knight) Radar - Systems<br>Engineering   | C/CPIF                       | Raytheon:Dallas, TX                  | 13.251                       | 0.944   | Feb 2011      | 0.935  | Jun 2012      | -    |               | 0.935            | Continuing          | Continuing |                                |
| C-130 Terrain Following<br>Radar System                              | C/TBD                        | TBD:TBD                              | -                            | 1.990   | Jun 2011      | 32.536 | May 2012      | -    |               | 32.536           | Continuing          | Continuing |                                |
|  |                              | Subtotal                             | 92.765                       | 30.896  |               | 60.481 |               | -    |               | 60.481           |                     |            |                                |
| Support (\$ in Millions)   |                              |                                      |                              | FY 2    | 2011          |        | 2012<br>ise   |      | 2012<br>CO    | FY 2012<br>Total |                     |            |                                |
|  | Contract                     |                                      | Total Prior                  |         |               |        |               |      |               |                  |                     |            | Target                         |

| Support (\$ in Millions)            |                              |                                   |                              |       |               |        | 2012<br>CO    | FY 2012<br>Total |               |        |                     |            |                                |
|-------------------------------------|------------------------------|-----------------------------------|------------------------------|-------|---------------|--------|---------------|------------------|---------------|--------|---------------------|------------|--------------------------------|
| Cost Category Item                  | Contract<br>Method<br>& Type | Performing<br>Activity & Location | Total Prior<br>Years<br>Cost | Cost  | Award<br>Date | Cost   | Award<br>Date | Cost             | Award<br>Date | Cost   | Cost To<br>Complete | Total Cost | Target<br>Value of<br>Contract |
| Acquisition Development Support     | C/Various                    | Various:Various                   | -                            | 2.094 | Mar 2011      | -      |               | -                |               | -      | 0.000               | 2.094      |                                |
| Precision Strike Package for SOF    | C/Various                    | Various:Various                   | -                            | 1.493 | Jun 2011      | 10.451 | Mar 2012      | -                |               | 10.451 | Continuing          | Continuing |                                |
| SOF C-130 Avionics<br>Modifications | C/Various                    | WR-ALC/GR:Warner<br>Robins, GA    | -                            | 3.458 | Apr 2011      | -      |               | -                |               | -      | 0.000               | 3.458      |                                |
|                                     |                              | Subtotal                          | -                            | 7.045 |               | 10.451 |               | -                |               | 10.451 |                     |            |                                |

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

APPROPRIATION/BUDGET ACTIVITY

Cost

119.537

**Project Cost Totals** 

R-1 ITEM NOMENCLATURE

**PROJECT** 

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

PE 1160403BB: Special Operations Aviation

Base

89.382

SF100: SO Aviation Systems Advanced

**DATE:** February 2011

BA 7: Operational Systems Development

Systems Advanced Development

Development

| Test and Evaluation (\$ in Millions)   |                              |                                   | FY 2011                      |        | FY 2012<br>Base |        | FY 2012<br>OCO |      | FY 2012<br>Total |                  |                     |            |                                |
|--|------------------------------|-----------------------------------|------------------------------|--------|-----------------|--------|----------------|------|------------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | Total Prior<br>Years<br>Cost | Cost   | Award<br>Date   | Cost   | Award<br>Date  | Cost | Award<br>Date    | Cost             | Cost To<br>Complete | Total Cost | Target<br>Value of<br>Contract |
| SOF Common TF/TA (Silent Knight) Radar | C/CPIF                       | Ratheon:Dallas TX                 | 8.461                        | 25.470 | Jan 2011        | 16.845 | Dec 2011       | -    |                  | 16.845           | Continuing          | Continuing |                                |
|  |                              | Subtotal                          | 8.461                        | 25.470 |                 | 16.845 |                | -    |                  | 16.845           |                     |            |                                |
| Management Services                    | (\$ in Millio                | ons)                              |                              | FY 2   | 2011            |        | 2012<br>ise    |      | 2012<br>CO       | FY 2012<br>Total |                     |            |                                |
| Cost Category Item                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | Total Prior<br>Years<br>Cost | Cost   | Award<br>Date   | Cost   | Award<br>Date  | Cost | Award<br>Date    | Cost             | Cost To<br>Complete | Total Cost | Target<br>Value of<br>Contract |
| SOF Common TF/TA (Silent Knight) Radar | C/CPIF                       | Ratheon:Dallas, TX                | 18.311                       | 5.280  | Dec 2010        | 1.605  | Dec 2011       | -    |                  | 1.605            | Continuing          | Continuing |                                |
|  |                              | Subtotal                          | 18.311                       | 5.280  |                 | 1.605  |                | -    |                  | 1.605            |                     |            |                                |
|  |                              |                                   |                              |        |                 |        |                |      |                  |                  |                     |            |                                |

FY 2011

68.691

Remarks

oco

Total

89.382

Complete | Total Cost | Contract

Exhibit R-4, RDT&E Schedule Profile: PB 2012 United States Special Operations Command DATE: February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 0400: Research, Development, Test & Evaluation, Defense-Wide PE 1160403BB: Special Operations Aviation SF100: SO Aviation Systems Advanced BA 7: Operational Systems Development Systems Advanced Development Development FY 2010 **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 3 3 3 2 3 2 3 4 4 SOF C-130 Avionics SOF C-130 Avionics Modifications EC-130J Commando Solo Upgrades EC-130J Commando Solo Upgrades Precision Strike Package Precision Strike Package MC-130W Multi-Mission Modification Precision Strike Package for SOF C-130 Terrain Following Radar System C-130 Terrain Following Radar System **Acquisition Development Support Acquisition Development Support** SOF Common TF/TA (Silent Knight) Radar Prototype Integration and Testing Developmental Testing (DT) Operational Testing (Combined with DT) Follow-On Platform Integration and Testing

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

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NO

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

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 1160403BB: Special Operations Aviation

Systems Advanced Development

**PROJECT** 

SF100: SO Aviation Systems Advanced

**DATE:** February 2011

Development

# Schedule Details

|   | Sta     | End  |         |      |  |
|---|---------|------|---------|------|--|
| Events by Sub Project                                       | Quarter | Year | Quarter | Year |  |
| SOF C-130 Avionics  |         |      |         |      |  |
| SOF C-130 Avionics Modifications                            | 4       | 2010 | 4       | 2016 |  |
| EC-130J Commando Solo Upgrades                              |         |      |         |      |  |
| EC-130J Commando Solo Upgrades                              | 1       | 2010 | 4       | 2016 |  |
| Precision Strike Package                                    |         |      |         |      |  |
| Precision Strike Package MC-130W Multi-Mission Modification | 1       | 2010 | 4       | 2011 |  |
| Precision Strike Package for SOF                            | 1       | 2011 | 4       | 2016 |  |
| C-130 Terrain Following Radar System                        |         |      |         |      |  |
| C-130 Terrain Following Radar System                        | 1       | 2011 | 4       | 2015 |  |
| Acquisition Development Support                             |         |      |         |      |  |
| Acquisition Development Support                             | 1       | 2011 | 4       | 2011 |  |
| SOF Common TF/TA (Silent Knight) Radar                      |         |      |         |      |  |
| Prototype Integration and Testing                           | 1       | 2010 | 4       | 2011 |  |
| Developmental Testing (DT)                                  | 2       | 2011 | 4       | 2014 |  |
| Operational Testing (Combined with DT)                      | 4       | 2011 | 4       | 2014 |  |
| Follow-On Platform Integration and Testing                  | 1       | 2013 | 4       | 2016 |  |