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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 United States Special 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 0304210BB: *Special Applications for Contingencies*

| <b>COST (\$ in Millions)</b>                        | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b> | <b>FY 2012 Total</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Total Program Element                               | 26.925         | 16.272         | 5.045               | -                  | 5.045                | 16.853         | 17.136         | 17.425         | 17.722         | Continuing              | Continuing        |
| 9999: <i>Special Applications for Contingencies</i> | 26.925         | 16.272         | 5.045               | -                  | 5.045                | 16.853         | 17.136         | 17.425         | 17.722         | Continuing              | Continuing        |

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

This program element develops and deploys special capabilities to perform intelligence, surveillance, and reconnaissance for deployed Special Operations Forces (SOF) using non-traditional means. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. Special Applications for Contingencies (SAFC) applies focused Research & Development (R&D) for relatively low cost solutions to provide remotely controlled system emplacement and data exfiltration from denied areas. This program also specifically addresses short lead-time contingency planning requirements where focused R&D will allow for test and evaluation of leading edge solutions to an emergent problem set based on requirements validated through a specific Joint Staff/Office of the Secretary of Defense (OSD) chartered approval process.

**B. Program Change Summary (\$ in Millions)**

|                                     | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b> | <b>FY 2012 Total</b> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget         | 27.467         | 16.272         | 16.574              | -                  | 16.574               |
| Current President's Budget          | 26.925         | 16.272         | 5.045               | -                  | 5.045                |
| Total Adjustments                   | -0.542         | -              | -11.529             | -                  | -11.529              |
| • Congressional General Reductions  |                | -              |                     |                    |                      |
| • Congressional Directed Reductions |                | -              |                     |                    |                      |
| • Congressional Rescissions         | -              | -              |                     |                    |                      |
| • Congressional Adds                |                | -              |                     |                    |                      |
| • Congressional Directed Transfers  |                | -              |                     |                    |                      |
| • Reprogrammings                    | -0.025         | -              |                     |                    |                      |
| • SBIR/STTR Transfer                | -0.517         | -              |                     |                    |                      |
| • Other Adjustment                  | -              | -              | -11.529             | -                  | -11.529              |

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

**Project:** 9999: *Special Applications for Contingencies*

Congressional Add: *Unmanned Aerial Systems Test Facility Upgrade*

Congressional Add: *Advanced Technology Sensors and Payloads*

Congressional Add: *Comprehensive Maritime Domain Awareness*

Congressional Add: *Ground Movement Target Indicator (GMTI) Radar for Class II UAVs*

| <b>FY 2010</b> | <b>FY 2011</b> |
|----------------|----------------|
|                |                |
| 2.390          | -              |
| 4.780          | -              |
| 3.187          | -              |
| 0.797          | -              |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2012 United States Special Operations Command | <b>DATE:</b> February 2011 |
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| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0304210BB: <i>Special Applications for Contingencies</i> |
|---|---|

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

|   | FY 2010 | FY 2011 |
|---|---------|---------|
| Congressional Add Subtotals for Project: 9999 | 11.154  | -       |
| Congressional Add Totals for all Projects     | 11.154  | -       |

**Change Summary Explanation**

Funding:

FY 2010 Decrease is due to a Small Business Innovative Research reduction (-\$0.517 million), and reprogrammings to higher command priorities (-\$0.025 million).

FY 2011 None.

FY 2012 Decrease of \$11.529 million is due to a Resource Management Decision 702 (-\$11.328 million) and an economic assumption (-\$.201 million).

Schedule: None.

Technical: None.

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|--|---------|---------|--------------|---|---------------|---------|---------|---|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States Special Operations Command  |         |         |              |   |               |         |         |   | DATE: February 2011 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>0400: Research, Development, Test & Evaluation, Defense-Wide<br>BA 7: Operational Systems Development   |         |         |              | R-1 ITEM NOMENCLATURE<br>PE 0304210BB: Special Applications for Contingencies |               |         |         | PROJECT<br>9999: Special Applications for Contingencies |                     |                  |            |
| COST (\$ in Millions)  | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO   | FY 2012 Total | FY 2013 | FY 2014 | FY 2015   | FY 2016             | Cost To Complete | Total Cost |
| 9999: Special Applications for Contingencies   | 26.925  | 16.272  | 5.045        | -   | 5.045         | 16.853  | 17.136  | 17.425  | 17.722              | Continuing       | Continuing |
| Quantity of RDT&E Articles   |         |         |              |   |               |         |         |   |                     |                  |            |
| A. Mission Description and Budget Item Justification   |         |         |              |   |               |         |         |   |                     |                  |            |
| This project develops and deploys special capabilities to perform intelligence, surveillance, and reconnaissance (ISR) for deployed Special Operations Forces (SOF) using non-traditional means. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. Special Applications for Contingencies (SAFC) applies focused Research and Development (R&D) for relatively low cost solutions to provide remotely controlled system emplacement and data infiltration. This program also specifically addresses short lead-time contingency planning requirements where focused R&D will allow for test and evaluation of leading edge solutions to an emergent problem set based on requirements validated through a specific Joint Staff/OSD chartered approval process. |         |         |              |   |               |         |         |   |                     |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)   |         |         |              |   |               |         |         |   | FY 2010             | FY 2011          | FY 2012    |
| Title: SAFC CONTINGENCIES  |         |         |              |   |               |         |         |   | 7.873               | 16.272           | 5.045      |
| FY 2010 Accomplishments:<br>Continued development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continued to evaluate unique sensor technologies, persistent stare and quick reaction systems.   |         |         |              |   |               |         |         |   |                     |                  |            |
| FY 2011 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.   |         |         |              |   |               |         |         |   |                     |                  |            |
| FY 2012 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.   |         |         |              |   |               |         |         |   |                     |                  |            |
| Title: SAFC SENSORS  |         |         |              |   |               |         |         |   | 7.898               | -                | -          |
| FY 2010 Accomplishments:   |         |         |              |   |               |         |         |   |                     |                  |            |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 United States Special Operations Command  |   | <b>DATE:</b> February 2011  |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 7: <i>Operational Systems Development</i>   | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0304210BB: <i>Special Applications for Contingencies</i> | <b>PROJECT</b><br>9999: <i>Special Applications for Contingencies</i> |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |   | <b>FY 2010</b>  | <b>FY 2011</b> |
| Continued research and assessment of emerging ISR technologies for maritime, land and air domains. Continued research and development of advanced mobile secure networking and detection technologies to create or enhance deployed, remotely emplaced surveillance architectures. Continued development and evaluation of unique unmanned sensor systems.  |   |   |                |
| <b>Accomplishments/Planned Programs Subtotals</b>   |   | 15.771  | 16.272         |
|   |   | <b>FY 2010</b>  | <b>FY 2011</b> |
| <b>Congressional Add:</b> Unmanned Aerial Systems Test Facility Upgrade   |   | 2.390   | -              |
| <b>FY 2010 Accomplishments:</b> Continued to develop a test/training range within approved airspace to test, evaluate, and certify sensor systems.  |   |   |                |
| <b>Congressional Add:</b> Advanced Technology Sensors and Payloads  |   | 4.780   | -              |
| <b>FY 2010 Accomplishments:</b> Developed an affordable, miniature wide-band, SIGINT/COMINT payload for employment on small and mid-size UAS platforms and in ground sensors.   |   |   |                |
| <b>Congressional Add:</b> Comprehensive Maritime Domain Awareness   |   | 3.187   | -              |
| <b>FY 2010 Accomplishments:</b> Continued development of a maritime domain awareness prototype system.  |   |   |                |
| <b>Congressional Add:</b> Ground Movement Target Indicator (GMTI) Radar for Class II UAVs   |   | 0.797   | -              |
| <b>FY 2010 Accomplishments:</b> Developed GMTI sensor capabilities for deployment on smaller unmanned aerial vehicle platforms by miniaturizing the GMTI system.  |   |   |                |
| <b>Congressional Adds Subtotals</b>   |   | 11.154  | -              |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>  |   |   |                |
| N/A   |   |   |                |
| <b>D. Acquisition Strategy</b>  |   |   |                |
| Special Applications for Contingencies acquisition strategy is evolutionary and spiral-based for technology insertion and low volume procurement. As a non-standard DoD acquisition program, it allows for maximum flexibility to respond to quickly emerging, short lead time, contingency based requirements that have been approved through an Executive Integrated Product Team chaired by the Joint Staff at the national level. |   |   |                |
| <b>E. Performance Metrics</b>   |   |   |                |
| N/A   |   |   |                |

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|---|--|--|--|---|--|--|--|---|--|----------------------------|--|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 United States Special Operations Command   |  |  |  |   |  |  |  |   |  | <b>DATE:</b> February 2011 |  |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 7: <i>Operational Systems Development</i> |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0304210BB: <i>Special Applications for Contingencies</i> |  |  |  | <b>PROJECT</b><br>9999: <i>Special Applications for Contingencies</i> |  |                            |  |  |  |

  

| <b>Product Development (\$ in Millions)</b>                                      |                                   |   |                               | <b>FY 2011</b> |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b> |                   | <b>FY 2012 Total</b> |                         |                   |                                 |
|--|-----------------------------------|---|-------------------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>  | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Intelligence, Surveillance, and Reconnaissance Sensor and Networking Development | MIPR                              | Various:Various                           | 45.237                        | 16.272         | Apr 2011          | -                   |                   | -                  |                   | -                    | Continuing              | Continuing        |                                 |
| Near-Real-Time Contingencies   | MIPR                              | Various:Various                           | 26.084                        | -              |                   | 5.045               | Aug 2013          | -                  |                   | 5.045                | Continuing              | Continuing        |                                 |
| Sensor Platform Capability Development   | MIPR                              | Various:Various                           | 53.519                        | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 53.519            |                                 |
| Comprehensive Port and Maritime Domain Awareness                                 | MIPR                              | NAVAIR:Patuxent River, MD                 | 19.433                        | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 19.433            |                                 |
| Advance Technology Sensors & Payloads  | MIPR                              | NAVAIR:Patuxent River, MD                 | 6.376                         | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 6.376             |                                 |
| GMTI Radar for Class II UAS  | MIPR                              | NAVAIR:Patuxent River, MD                 | 0.797                         | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 0.797             |                                 |
| Prior Years  | Various                           | Various:Various                           | 26.649                        | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 26.649            |                                 |
| <b>Subtotal</b>  |                                   |   | 178.095                       | 16.272         |                   | 5.045               |                   | -                  |                   | 5.045                |                         |                   |                                 |

  

| <b>Test and Evaluation (\$ in Millions)</b> |                                   |   |                               | <b>FY 2011</b> |                   | <b>FY 2012 Base</b> |                   | <b>FY 2012 OCO</b> |                   | <b>FY 2012 Total</b> |                         |                   |                                 |
|---|-----------------------------------|---|-------------------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Total Prior Years Cost</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>          | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| UAS Test Facility Upgrade                   | MIPR                              | SPAWAR:Charleston, SC                     | 4.784                         | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 4.784             |                                 |
| <b>Subtotal</b>                             |                                   |   | 4.784                         | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 4.784             |                                 |

  

|                            |  | <b>Total Prior Years Cost</b> | <b>FY 2011</b> |  | <b>FY 2012 Base</b> |  | <b>FY 2012 OCO</b> |  | <b>FY 2012 Total</b> | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
|----------------------------|--|-------------------------------|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Project Cost Totals</b> |  | 182.879                       | 16.272         |  | 5.045               |  | -                  |  | 5.045                |                         |                   |                                 |

  

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| <b>Remarks</b> |
|                |

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2012 United States Special 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 0304210BB: *Special Applications for Contingencies*

**PROJECT**

9999: *Special Applications for Contingencies*

|   | FY 2010 |   |   |   | FY 2011 |   |   |   | FY 2012 |   |   |   | FY 2013 |   |   |   | FY 2014 |   |   |   | FY 2015 |   |   |   | FY 2016 |   |   |   |
|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|   | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ISR Technology Integration & Testing  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ISR Prototype Demonstrations  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ISR Combat Evaluation   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Comprehensive Port Maritime Domain Awareness                                  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Advanced Technology Sensors and Payloads                                      |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Unmanned Aerial Systems Test Facility Upgrade                                 |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| GMTI Radar for Class II UAS   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 United States Special Operations Command   |   |   | <b>DATE:</b> February 2011 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0304210BB: <i>Special Applications for Contingencies</i> | <b>PROJECT</b><br>9999: <i>Special Applications for Contingencies</i> |                            |

Schedule Details

| Events  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| Intelligence, Surveillance, and Reconnaissance (ISR) Capabilities Development | 1       | 2010 | 4       | 2016 |
| ISR Technology Integration & Testing  | 3       | 2010 | 4       | 2016 |
| ISR Prototype Demonstrations  | 1       | 2010 | 4       | 2016 |
| ISR Combat Evaluation   | 2       | 2010 | 4       | 2016 |
| Comprehensive Port Maritime Domain Awareness                                  | 1       | 2010 | 4       | 2011 |
| Advanced Technology Sensors and Payloads                                      | 2       | 2010 | 4       | 2011 |
| Unmanned Aerial Systems Test Facility Upgrade                                 | 1       | 2010 | 4       | 2010 |
| GMTI Radar for Class II UAS   | 1       | 2010 | 4       | 2010 |

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