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

R-1 ITEM NOMENCLATURE

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

PE 1160483BB: SOF Underwater Systems

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

| COST (\$ in Millions)         | FY 2011 | FY 2012 | FY 2013<br>Base | FY 2013<br>OCO | FY 2013<br>Total | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Cost To<br>Complete | Total Cost |
|-------------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| Total Program Element         | 27.725  | 68.424  | 26.405          | -              | 26.405           | 67.308  | 17.748  | 0.096   | 0.098   | 0.000               | 207.804    |
| S0417: SOF Underwater Systems | 27.725  | 68.424  | 26.405          | -              | 26.405           | 67.308  | 17.748  | 0.096   | 0.098   | 0.000               | 207.804    |

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

This program element provides for engineering and manufacturing development and operational systems development of small combat underwater submersibles and underwater support systems and equipment. This program element also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by Special Operations Forces (SOF) in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions.

| B. Program Change Summary (\$ in Millions)            | FY 2011 | FY 2012 | FY 2013 Base | FY 2013 OCO | FY 2013 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget                           | 13.986  | 92.424  | 104.988      | -           | 104.988       |
| Current President's Budget                            | 27.725  | 68.424  | 26.405       | -           | 26.405        |
| Total Adjustments                                     | 13.739  | -24.000 | -78.583      | -           | -78.583       |
| <ul> <li>Congressional General Reductions</li> </ul>  | -       | -       |              |             |               |
| <ul> <li>Congressional Directed Reductions</li> </ul> | -       | -24.000 |              |             |               |
| <ul> <li>Congressional Rescissions</li> </ul>         | -       | -       |              |             |               |
| <ul> <li>Congressional Adds</li> </ul>                | -       | -       |              |             |               |
| <ul> <li>Congressional Directed Transfers</li> </ul>  | -       | -       |              |             |               |
| <ul> <li>Reprogrammings</li> </ul>                    | -       | -       |              |             |               |
| SBIR/STTR Transfer                                    | -0.718  | -       |              |             |               |
| <ul> <li>Other Adjustment</li> </ul>                  | 14.457  | -       | -78.583      | -           | -78.583       |

# **Change Summary Explanation**

Funding:

FY 2011: Net increase of \$13.739 million is due to a reprogramming from the Joint Multi-Mission Submersible program via the FY 2011 Appropriations Bill (\$14.924 million), an economic assumption reduction (-\$0.467 million) and a transfer of funds to Small Business Innovation Research (-\$0.718 million).

FY 2012: Decrease of \$24.000 million due to a congressional reduction for program excessive growth (-\$24.000 million).

PE 1160483BB: *SOF Underwater Systems* United States Special Operations Command

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**DATE:** February 2012

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United Star  | tes Special Operations Command                   | DATE: February 2012 |
| APPROPRIATION/BUDGET ACTIVITY  | R-1 ITEM NOMENCLATURE                            |                     |
| 0400: Research, Development, Test & Evaluation, Defense-Wide   | PE 1160483BB: SOF Underwater Systems             |                     |
|  | PE 1100403DD. SOF Underwater Systems             |                     |
| BA 7: Operational Systems Development  |  |                     |
| FY 2013: Net decrease of \$78.583 million is due to postponen programs (-\$68.716 million), reprogramming to higher commar |  |                     |
| Schedule: Delays in Dry Combat Submersible programs due to   | o manpower limitations and competing priorities. |                     |
| Technical: None.   |  |                     |
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PE 1160483BB: *SOF Underwater Systems*United States Special Operations Command

| Exhibit R-2A, RDT&E Project Just                             | tification: PE                | 3 2013 Unite | d States Sp | ecial Operat | ions Comma        | nd          |         |                               | <b>DATE:</b> Febi | ruary 2012 |            |  |
|--|-------------------------------|--------------|-------------|--------------|-------------------|-------------|---------|-------------------------------|-------------------|------------|------------|--|
|  | APPROPRIATION/BUDGET ACTIVITY |              |             |              |                   | TURE        | PROJECT | Γ                             |                   |            |            |  |
| 0400: Research, Development, Test & Evaluation, Defense-Wide |                               |              |             | PE 116048    | 3BB: <i>SOF U</i> | nderwater S | ystems  | S0417: SOF Underwater Systems |                   |            |            |  |
| BA 7: Operational Systems Development                        |                               |              |             |              |                   |             |         |                               |                   |            |            |  |
| COST (\$ in Millions)  |                               |              | FY 2013     | FY 2013      | FY 2013           |             |         |                               |                   | Cost To    |            |  |
| COST (\$ III WIIIIONS)                                       | FY 2011                       | FY 2012      | Base        | oco          | Total             | FY 2014     | FY 2015 | FY 2016                       | FY 2017           | Complete   | Total Cost |  |
| S0417: SOF Underwater Systems                                | 27.725                        | 68.424       | 26.405      | -            | 26.405            | 67.308      | 17.748  | 0.096                         | 0.098             | 0.000      | 207.804    |  |
| Quantity of RDT&E Articles                                   |                               |              |             |              |                   |             |         |                               |                   |            |            |  |

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

This project provides for engineering and manufacturing development and operational systems development of small combat underwater submersibles and underwater support systems and equipment. Also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by Special Operations Forces (SOF) in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

- Combat Submersibles: Includes incorporating obsolescence solutions and conducting product improvement efforts for the in-service SEAL Delivery Vehicle MK 8 and conducting technology development and engineering and manufacturing development for the follow-on combat submersibles such as the various types of shallow water combat submersibles. The shallow water combat submersibles use an evolutionary acquisition approach to develop a family of submersibles, to include a new wet submersible capable of operating from existing Dry Deck Shelters, and more capable wet and/or dry submersibles that will operate from future large submarine shelters/systems and/or surface ships. The combat submersible sub-project leverages existing SEAL Delivery Vehicle components, develops new state-of-the-art components where appropriate, and leases or purchases commercial-off-the-shelf components and vehicles for test and evaluation and operational assessment.
- Underwater Support Systems and Equipment: Includes conducting product improvement efforts for in-service submarine support systems such as the Dry Deck Shelters, unmanned underwater vehicles such as the Semi-autonomous Hydrographic Reconnaissance Vehicle, and diver equipment such as the Hydrographic Mapping Unit, Non-gasoline Burning Outboard Engines and Diver Propulsion Devices. Also provides for technology development and engineering and manufacturing development, and studies and analysis for follow-on underwater systems and support equipment.

| B. Accomplishments/Planned Programs (\$ in Millions)   | FY 2011 | FY 2012 | FY 2013 |
|--|---------|---------|---------|
| Title: Shallow Water Combat Submersible (Block I)  | 12.413  | 26.566  | 8.989   |
| FY 2011 Accomplishments: Completed source selection and made down-select to single contractor for detailed design and development for a new Shallow Water Combat Submersible capability. |         |         |         |
| FY 2012 Plans: Complete critical design review for Block I and conduct developmental test.   |         |         |         |
| FY 2013 Plans:   |         |         |         |

PE 1160483BB: *SOF Underwater Systems* United States Special Operations Command

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|--|--|--------------------|----------------------------------|-------------|---------|--|--|
| Exhibit R-2A, RDT&E Project Justification: PB 2013 United States   | Special Operations Command                                 |                    | DATE: Fel                        | oruary 2012 |         |  |  |
| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development   | R-1 ITEM NOMENCLATURE PE 1160483BB: SOF Underwater Systems | PROJEC<br>S0417: S | ECT<br>': SOF Underwater Systems |             |         |  |  |
| B. Accomplishments/Planned Programs (\$ in Millions)   |  |                    | FY 2011                          | FY 2012     | FY 2013 |  |  |
| Completes contractor quality assurance, acceptance and system buil Begins contractor verification trials.  | d up test. Continues test and evaluation of SWCS           | Block I.           |                                  |             |         |  |  |
| Title: Dry Combat Submersibles   |  |                    | 14.064                           | 39.858      | 9.234   |  |  |
| FY 2011 Accomplishments: Completed design and engineering assessment of user operational e submersible. Commenced design and construction of an advanced to commercial dry submersible technology to demonstrate potential key | echnology demonstrator prototype (UOES #2) that            | uses               |                                  |             |         |  |  |
| FY 2012 Plans: Procure government furnished equipment, continues commercial sub demonstrator (UOES #2). Commence additional prototyping efforts. SOF Submersible Concept Design Study in Program Element 116048                | Project initiated as part of Congressional Adds: Al        |                    |                                  |             |         |  |  |
| FY 2013 Plans: Continues commercial submersible prototype efforts, including the co of additional advanced technology demonstrator prototypes.   | nstruction of UOES #2 and potential design and co          | onstruction        |                                  |             |         |  |  |
| Title: Dry Deck Shelter  |  |                    | 0.068                            | 2.000       | 3.154   |  |  |
| FY 2011 Accomplishments: Drafted acquisition program documentation, and contract request for   | proposal for dry deck shelter extension.                   |                    |                                  |             |         |  |  |
| FY 2012 Plans: Conduct Analysis of Alternatives for next generation shelter to accom   | modate family of combat submersibles.                      |                    |                                  |             |         |  |  |
| FY 2013 Plans: Continues Analysis of Alternatives for next generation shelter and eva  | aluate SOF Underwater Systems mobility needs.              |                    |                                  |             |         |  |  |
| Title: Dry Combat Submersible Medium (DCSM)  |  |                    | -                                | -           | 5.028   |  |  |
| FY 2013 Plans: Performs studies and analysis to prepare for the commencement of a of user operational evaluation projects.   | DCSM acquisition program at Milestone B based              | on results         |                                  |             |         |  |  |
| Title: SEAL Delivery Vehicle (SDV) Technology Refresh  |  |                    | 1.180                            | -           | -       |  |  |
| FY 2011 Accomplishments: Tested and integrated upgraded systems to the SDV for improved co   | mmunications and navigation.                               |                    |                                  |             |         |  |  |
|  | Accomplishments/Planned Programs                           | Subtotals          | 27.725                           | 68.424      | 26.405  |  |  |
|  |  |                    |                                  |             |         |  |  |

PE 1160483BB: *SOF Underwater Systems*United States Special Operations Command

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

**DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development

PE 1160483BB: SOF Underwater Systems

S0417: SOF Underwater Systems

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

|                           | •              | •       | FY 2013 | FY 2013 | FY 2013      |         |         |         |         | <b>Cost To</b> |                   |
|---------------------------|----------------|---------|---------|---------|--------------|---------|---------|---------|---------|----------------|-------------------|
| <u>Line Item</u>          | <b>FY 2011</b> | FY 2012 | Base    | OCO     | <u>Total</u> | FY 2014 | FY 2015 | FY 2016 | FY 2017 | Complete       | <b>Total Cost</b> |
| PROC1: Underwater Systems | 0.000          | 6.999   | 23.037  |         | 23.037       | 33.017  | 36.213  | 80.813  | 73.834  | 37.000         | 290.913           |
| • PROC2: MK8 MOD1 SEAL    | 0.818          |         |         |         |              |         |         |         |         | 0.000          | 0.818             |
| Delivery Vehicle          |                |         |         |         |              |         |         |         |         |                |                   |
| PROC3: Maritime Equip     | 0.800          |         |         |         |              |         |         |         |         | 0.000          | 0.800             |

#### D. Acquisition Strategy

- Combat Submersibles: Shallow Water Combat Submersible Block I used full and open competition, with a down-select to a single contractor. Broad Agency Announcements were issued for Dry Combat Submersible multiple design efforts with follow-on prototyping. Additionally, existing contracts are utilized where appropriate for various component development and prototypes.
- Dry Deck Shelter Extension Modification: Dry Deck Shelter will use full and open competition for the modification to the current Dry Deck Shelter system.
- Underwater Support Systems and Equipment: Existing contracts are utilized where appropriate, and various new contracts are awarded as necessary.

## E. Performance Metrics

N/A

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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 1160483BB: SOF Underwater Systems

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| BA 1: Operational Systems Development |
|---------------------------------------|
|                                       |

| Product Development                           |                              | FY 2012   |                              | FY 2013<br>Base |               | FY 2013<br>OCO |               | FY 2013<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 |
| Shallow Water Combat<br>Submersible (Block I) | C/Various                    | Teledyne Brown<br>Engineering:Huntsville,<br>AL | 19.128                       | 19.885          | Apr 2012      | 4.549          | May 2013      | -                |               | 4.549  | 1.874               | 45.436     | 44.727                         |
| Dry Combat Submersibles                       | C/Various                    | Various:Various                                 | 16.162                       | 38.521          | Jul 2012      | 6.144          | Aug 2013      | -                |               | 6.144  | 4.083               | 64.910     |                                |
| Prior Year Funding                            | Various                      | Multiple:Multiple                               | 15.860                       | -               |               | -              |               | -                |               | -      | 0.000               | 15.860     |                                |
|   |                              | Subtotal  | 51.150                       | 58.406          |               | 10.693         |               | -                |               | 10.693 | 5.957               | 126.206    |                                |

| Support (\$ in Millions)                       |                              |  | FY 2012                      |       | FY 2013<br>Base |       | FY 2013<br>OCO |      | FY 2013<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 |
| Shallow Water Combat<br>Submersibles (Block I) | Various                      | NSWC and<br>NAVSEA:Panama City,<br>FL and Washington, DC | 1.632                        | 1.289 | Jan 2012        | 0.200 | Feb 2013       | -    |                  | 0.200 | 0.000               | 3.121      |                                |
| Dry Combat Submersibles                        | Various                      | TBD:TBD  | 2.643                        | -     |                 | -     |                | -    |                  | -     | 0.000               | 2.643      |                                |
| Dry Deck Shelter                               | Various                      | Various:Various  | -                            | 1.761 | May 2012        | 2.917 | May 2013       | -    |                  | 2.917 | 0.000               | 4.678      |                                |
| Dry Combat Submersible<br>Medium               | TBD                          | TBD:TBD  | -                            | -     |                 | 2.322 | May 2013       | -    |                  | 2.322 | 4.253               | 6.575      |                                |
|  |                              | Subtotal   | 4.275                        | 3.050 |                 | 5.439 |                | -    |                  | 5.439 | 4.253               | 17.017     |                                |

| Test and Evaluation (\$                       | est and Evaluation (\$ in Millions) |   |                              |       |               | FY 2013<br>Base |               | FY 2013<br>OCO |               | FY 2013<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 |
| Shallow Water Combat<br>Submersible (Block I) | Various                             | NSWC,<br>NAVSEA:Panama City,<br>FL/Washington, DC | 2.486                        | 3.802 | Apr 2012      | 2.522           | Jan 2013      | -              |               | 2.522            | 1.516               | 10.326     |                                |
| Dry Combat Submersible                        | C/Various                           | TBD:TBD   | -                            | 0.451 | May 2012      | 1.992           | May 2013      | -              |               | 1.992            | 8.065               | 10.508     |                                |
|   |                                     | Subtotal  | 2.486                        | 4.253 |               | 4.514           |               | -              |               | 4.514            | 9.581               | 20.834     |                                |

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

**Project Cost Totals** 

65.458

68.424

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development

PE 1160483BB: SOF Underwater Systems

26.405

S0417: SOF Underwater Systems

26.405

30.404

190.691

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| Management Services                           | agement Services (\$ in Millions) |   |                              | FY 2012 |               | FY 2013<br>Base |               | FY 2013<br>OCO |               | FY 2013<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 | Total Cost | Target<br>Value of<br>Contract |
| Shallow Water Combat<br>Submersible (Block I) | Various                           | NSWC/<br>NAVSEA:Panama City,<br>FL/Washington, DC | 3.435                        | 1.590   | Feb 2012      | 1.926           | Jan 2013      | -              |               | 1.926            | 1.256   | 8.207      |                                |
| Dry Combat Submersible                        | Various                           | SRA:MacDill AFB, FL                               | 2.615                        | 0.886   | Jun 2012      | 0.965           | May 2013      | -              |               | 0.965            | 2.197   | 6.663      |                                |
| Dry Deck Shelter                              | MIPR                              | NAVSEA:Washington,<br>DC                          | 1.497                        | 0.239   | Mar 2012      | 0.200           | Jan 2013      | -              |               | 0.200            | 0.660   | 2.596      |                                |
| Dry Combat Submersible<br>Medium              | Various                           | Various:Various                                   | -                            | -       |               | 2.668           | Jan 2013      | -              |               | 2.668            | 6.500   | 9.168      |                                |
|   |                                   | Subtotal  | 7.547                        | 2.715   |               | 5.759           |               | -              |               | 5.759            | 10.613  | 26.634     |                                |
|   |                                   |   | Total Prior<br>Years<br>Cost | FY 2    | 2012          |                 | 2013<br>Ise   | FY 2           |               | FY 2013<br>Total | Cost To | Total Cost | Target<br>Value of<br>Contract |

Remarks

PE 1160483BB: SOF Underwater Systems
United States Special Operations Command

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

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide
BA 7: Operational Systems Development

DATE: February 2012

R-1 ITEM NOMENCLATURE
PE 1160483BB: SOF Underwater Systems

S0417: SOF Underwater Systems

|  | FY 2011 |   |   |   | FY 2012 |   |   | FY 2013 |   |   | FY 2014 |   |   |   | FY 2015 |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   |   |   |   |
|--|---------|---|---|---|---------|---|---|---------|---|---|---------|---|---|---|---------|---|---|---------|---|---|---|---------|---|---|---|---|---|---|
|  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4       | 1 | 2 | 3       | 4 | 1 | 2 | 3       | 4 | 1 | 2       | 3 | 4 | 1 | 2       | 3 | 4 | 1 | 2 | 3 | 4 |
| Shallow Water Combat Submersible (Block I)           |         |   |   | ' |         | ' |   |         |   |   | '       |   | ' |   |         |   |   | '       |   |   |   |         |   |   |   |   |   |   |
| Milestone B  |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Engineering & Manufacturing Development (Block I)    |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Developmental Test (Block I)                         |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Operational Test (Block 1)                           |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Dry Combat Submersibles                              |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Analysis, Component Development and Prototypes       |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Dry Deck Shelter                                     |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Analysis of Alternatives for Next Generation Shelter |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Dry Combat Submersible Medium                        |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Engineering Analysis and Program Planning            |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |
| Milestone B  |         |   |   |   |         |   |   |         |   |   |         |   |   |   |         |   |   |         |   |   |   |         |   |   |   |   |   |   |

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

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 1160483BB: SOF Underwater Systems

S0417: SOF Underwater Systems

**DATE:** February 2012

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

## Schedule Details

| Sta     | End                  |  |   |  |  |
|---------|----------------------|--|---|--|--|
| Quarter | Year                 | Quarter  | Year  |  |  |
|         |                      |  |   |  |  |
| 1       | 2011                 | 1  | 2011  |  |  |
| 1       | 2011                 | 1  | 2014  |  |  |
| 2       | 2012                 | 2  | 2014  |  |  |
| 3       | 2014                 | 1  | 2015  |  |  |
|         |                      |  |   |  |  |
| 4       | 2011                 | 4  | 2014  |  |  |
|         |                      |  |   |  |  |
| 3       | 2012                 | 4  | 2013  |  |  |
|         |                      |  |   |  |  |
| 3       | 2013                 | 4  | 2015  |  |  |
| 4       | 2015                 | 1  | 2016  |  |  |
|         | Quarter  1 1 2 3 4 3 | 1 2011<br>1 2011<br>2 2012<br>3 2014<br>4 2011<br>3 2012 | Quarter         Year         Quarter           1         2011         1           1         2011         1           2         2012         2           3         2014         1           4         2011         4           3         2012         4           3         2013         4 |  |  |

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