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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Navy | <b>DATE:</b> April 2013 |
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| APPROPRIATION/BUDGET ACTIVITY<br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0101402N: <i>Navy Strategic Comms</i> |               |         |         |         |         |                  |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|-------------------------------------------------------------------|---------------|---------|---------|---------|---------|------------------|------------|
| COST (\$ in Millions)                                                                                                                            | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                                         | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                            | 378.884         | 24.075  | 19.208               | 21.729       | -                                                                 | 21.729        | 14.285  | 11.766  | 12.284  | 12.512  | Continuing       | Continuing |
| 1083: <i>Shore To Ship Com System</i>                                                                                                            | 119.697         | 13.865  | 18.187               | 21.729       | -                                                                 | 21.729        | 14.285  | 11.766  | 12.284  | 12.512  | Continuing       | Continuing |
| 3002: <i>Navy Strategic Comm Project</i>                                                                                                         | 259.187         | 10.210  | 1.021                | 0.000        | -                                                                 | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 270.418    |

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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

The Shore to Ship Communications System develops communication system elements which provide Nuclear Command, Control and Communications (NC3) from originator to execution platforms. The Shore to Ship Communications System provides continuous assessment of the command and control links between the National Command Authority and missile platforms and is conducted to ensure compliance with Nuclear Command and Control System (C2) Technical Performance Criteria (NTPC). The Shore to Ship Communications System addresses joint system design issues for Emergency Action Message (EAM) distribution to all nuclear platforms and provides evaluation of joint interoperability of EAM delivery systems. Tools are developed to provide strategic command and control planning within the submarine shore infrastructure to support deployed ballistic missile submarines.

The E-6B Block I modification program corrects Airborne National Command Post program Follow-On Operational Test and Evaluation operational suitability deficiencies and addresses legacy system obsolescence issues. Without the Block I program, legacy system obsolescence will result in several unsupportable mission systems. Block I designs, develops, integrates, and tests a multi-level security system, open systems architecture; replaces the intercommunications and Mission Computer Set; modifies the cooling, electrical, and Ultra-High Frequency Command, Control and Communications system; and addresses internet protocol bandwidth expansion impacts to pre-Block I baseline aircraft. Block I adds operator workstations throughout the aircraft to reduce workload and improve system interoperability, and provides a foundation for evolutionary upgrades. Other modifications (Block IA engineering change proposal) include: an additional auxiliary power unit to enhance power and cooling capabilities supporting the additional systems in the multi-level security system, open systems architecture, a very low frequency transmitter obsolescence replacement, and a high power transmit set subsystem refurbishment.

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| APPROPRIATION/BUDGET ACTIVITY                              |         | R-1 ITEM NOMENCLATURE             |              |                  |               |
| 1319: Research, Development, Test & Evaluation, Navy       |         | PE 0101402N: Navy Strategic Comms |              |                  |               |
| BA 7: Operational Systems Development                      |         |                                   |              |                  |               |
| B. Program Change Summary (\$ in Millions)                 | FY 2012 | FY 2013                           | FY 2014 Base | FY 2014 OCO      | FY 2014 Total |
| Previous President's Budget                                | 23.208  | 19.208                            | 25.231       | -                | 25.231        |
| Current President's Budget                                 | 24.075  | 19.208                            | 21.729       | -                | 21.729        |
| Total Adjustments                                          | 0.867   | 0.000                             | -3.502       | -                | -3.502        |
| • Congressional General Reductions                         | -       | -                                 |              |                  |               |
| • Congressional Directed Reductions                        | -       | -                                 |              |                  |               |
| • Congressional Rescissions                                | -       | -                                 |              |                  |               |
| • Congressional Adds                                       | -       | -                                 |              |                  |               |
| • Congressional Directed Transfers                         | -       | -                                 |              |                  |               |
| • Reprogrammings                                           | 1.425   | 0.000                             |              |                  |               |
| • SBIR/STTR Transfer                                       | -0.558  | 0.000                             |              |                  |               |
| • Program Adjustments                                      | 0.000   | 0.000                             | -3.694       | -                | -3.694        |
| • Rate/Misc Adjustments                                    | 0.000   | 0.000                             | 0.192        | -                | 0.192         |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                            |               |         |         | DATE: April 2013                          |         |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |               |         |         | PROJECT<br>1083: Shore To Ship Com System |         |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                                  | FY 2014 Total | FY 2015 | FY 2016 | FY 2017                                   | FY 2018 | Cost To Complete | Total Cost |
| 1083: Shore To Ship Com System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 119.697         | 13.865  | 18.187               | 21.729       | -                                                          | 21.729        | 14.285  | 11.766  | 12.284                                    | 12.512  | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0               | 0       | 0                    | 0            |                                                            | 0             | 0       | 0       | 0                                         | 0       |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| Th Shore To Ship Communication System develops communication elements which provide Nuclear Command, Control and Communications (NC3) from originator to execution platforms. This portfolio of programs provides design and development for shore-to-ship transmit and receive communications systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| The Low Band Universal Communications System (LBUCS) is a modernization program that will upgrade the transmit and receive subsystems of the Fixed Submarine Broadcast System (FSBS) which are approaching their operational end of life. LBUCS will ensure operational capability through the Very Low Frequency (VLF) architecture by providing system life extension and flexibility of submarine broadcast traffic to submarines operating in a stealth posture. The flexibility includes enhanced throughput and anti-jam capability, ensuring more operational products are delivered to a submarine without risking mast exposure. The flexibility further includes a simplified shore architecture to maintain capability while maximizing use of shore nodes (Broadcast Keying Sites). LBUCS also provides an upgrade to the VLF receive system, with all interoperable waveforms, to ensure continued compliance with Nuclear Command and Control System (C2) Technical Performance Criteria (NTPC).                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| The Strategic Communications Assessment Program/Continued Evaluation Program provides constant assessment of the effectiveness of the end-to-end NC2 network and analysis of system performance in various mission locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| Concept Development/System Planning provides Network Enabled Operation (NEO) that addresses Allied interoperability issues for submarine communications in an internet protocol environment. As new technologies are realized, coalition architectures are developed and tested to ensure continued interoperability. The United States/United Kingdom VLF Project Agreement provides mutual improvements to VLF transmission and reception capabilities for submarine operations by evolving and demonstrating modern technologies and advanced waveform techniques. Concept Development/System Planning also provides for the modeling of unique Very Low Frequency/Low Frequency (VLF/LF) submarine communications capabilities which include large physical shore broadcast antennas, underwater depth penetration studies and interoperable VLF waveform analysis. Technologies to improve high voltage insulators, helix house bushings and antenna components used in the fixed VLF transmit systems are evaluated and tested through the High Voltage Improvement Program. Development of information assurance solutions for the Broadcast Control Authority (BCA) and Submarine Operating Authority wide area network are part of this program to mitigate vulnerability concerns. |                 |         |                      |              |                                                            |               |         |         |                                           |         |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                      |              |                                                            |               |         |         | FY 2012                                   | FY 2013 | FY 2014          |            |
| Title: Low Band Universal Communication System (LBUCS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                            |               |         |         | 7.204                                     | 13.281  | 16.361           |            |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>DATE:</b> April 2013                                                  |                                                         |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> | <b>PROJECT</b><br>1083: <i>Shore To Ship Com System</i> |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                          | <b>FY 2012</b>                                          | <b>FY 2013</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <b>Articles:</b>                                                         |                                                         |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                          | 0                                                       | 0              |
| <b>FY 2012 Accomplishments:</b><br>-Completed technical readiness review for transmit terminal.<br>-Took receipt of LBUCS Transmit production representative articles (PRA).<br>-Continued statutory and regulatory acquisition documentation in preparation for FY13 LBUCS Transmit Milestone C, including the Capability Production Document (CPD) and Information Support Plan (ISP).<br>-Commenced LBUCS Transmit Developmental Testing (DT) and Operational Assessment (OA).<br><br><b>FY 2013 Plans:</b><br>-Complete LBUCS Transmit DT and OA.<br>-Commence LBUCS Transmit Low Rate Initial Production (LRIP).<br>-Commence LBUCS Receive development.<br>-Complete LBUCS Receive Preliminary Design Review (PDR) and Critical Design Review (CDR).<br>-Commence development of a new Very Low Frequency (VLF) mode, which will be incorporated into the LBUCS Receive development effort.<br>-Commence Submarine Operating Authority Wide Area Network (SWAN) Information Assurance (IA) upgrade development.<br>-Complete statutory and regulatory acquisition documentation in preparation for FY13 LBUCS Transmit Milestone C, including the Capability Production Document (CPD) and Information Support Plan (ISP).<br>-Achieve LBUCS Transmit Milestone C.<br><br><b>FY 2014 Plans:</b><br>-Complete LBUCS Transmit Low Rate Initial Production (LRIP).<br>-Complete LBUCS Transmit Developmental Testing (DT)/Integration Testing (IT)/Operational Testing (OT).<br>-Complete LBUCS Receive development.<br>-Complete development of a new VLF Mode which will be incorporated into the LBUCS Receive development effort.<br>-Continue SWAN IA upgrade development. |  |                                                                          |                                                         |                |
| <b>Title:</b> Nuclear Command, Control, Communications Long Term Solution (NC3 LTS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>Articles:</b>                                                         | 1.909<br>0                                              | 0.000          |
| <b>FY 2012 Accomplishments:</b><br>-Completed Navy NC3 Assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                          |                                                         |                |
| <b>Title:</b> Strategic Communications Assessment Program (SCAP)/Continuing Evaluation Program (CEP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>Articles:</b>                                                         | 2.879<br>0                                              | 3.084<br>0     |
| <b>FY 2012 Accomplishments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                          |                                                         | 3.811<br>0     |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            | DATE: April 2013                          |            |            |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms | PROJECT<br>1083: Shore To Ship Com System |            |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            | FY 2012                                   | FY 2013    | FY 2014    |
| <div>-Continued mission analysis of Ship Submersible Ballistic Nuclear Submarine (SSBN) Emergency Action Message (EAM) reception for SSBN patrols.</div> <div>-Provided reports on performance, adherence to delivery time requirements and shortfalls.</div> <div>-Continued development of automated data collection and analysis tools to reduce latency time between missions and results availability.</div> <div>FY 2013 Plans:</div> <div>-Continue mission analysis of Ship Submersible Ballistic Nuclear Submarine (SSBN) Emergency Action Message (EAM)reception for Ship Submersible Ballistic Nuclear Submarine (SSBN) patrols.</div> <div>-Provide reports on performance, adherence to delivery time requirements and shortfalls.</div> <div>-Complete development of automated data collection and analysis tools to reduce latency time between missions and results availability.</div> <div>FY 2014 Plans:</div> <div>-Continue mission analysis of Ship Submersible Ballistic Nuclear Submarine (SSBN) Emergency Action Message (EAM) reception of SSBN Patrols.</div> <div>-Provide reports on performance, adherence to delivery time requirements and shortfalls.</div> |                                                            |                                           |            |            |
| <div>Title: Concept Development/Systems Planning</div> <div>Articles:</div> <div>FY 2012 Accomplishments:</div> <div>-Integrated Joint/Allied Network Enabled Operation (NEO) with Command, Control, Communications, Computers, and Intelligence (C4I) applications.</div> <div>FY 2013 Plans:</div> <div>-Prepare and submit final NEO report to include results and recommendations.</div> <div>-Commence United States/United Kingdom Very Low Frequency (VLF) Project Arrangement (PA).</div> <div>-Assess United States/United Kingdom performance requirements to determine which concepts to pursue.</div> <div>FY 2014 Plans:</div> <div>-Continue United States/United Kingdom Very Low Frequency (VLF) Project Arrangement (PA).</div> <div>-Determine appropriate United States/United Kingdom performance requirements to determine which concepts to pursue.</div>                                                                                                                                                                                                                                                                                                               |                                                            | 0.784<br>0                                | 0.804<br>0 | 0.414<br>0 |
| <div>Title: High Voltage Improvement Program</div> <div>Articles:</div> <div>FY 2012 Accomplishments:</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            | 0.797<br>0                                | 0.749<br>0 | 0.841<br>0 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |         |                 |                                                            |                  |         | DATE: April 2013                          |         |            |                     |            |  |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |         |                 | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |                  |         | PROJECT<br>1083: Shore To Ship Com System |         |            |                     |            |  |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                            |                  |         | FY 2012                                   |         | FY 2013    |                     | FY 2014    |  |
| <div>-Completed examination of aging laminated wood used in Very Low Frequency (VLF)/Low Frequency (LF) Helix Houses.</div> <div>-Completed examination of new ferrites to reduce the loss and size of the VLF/LF Helix House enclosure.</div> <div>-Completed examination of partial-discharge for early detection of Helix House issues.</div> <div>-Completed examination of outdoor Helix House effort.</div> <div>-Commenced examination of aging for multi-conductor High-Q inductor cable used in VLF/LF Helix Houses.</div> <div>FY 2013 Plans:</div> <div>-Continue examination of aging multi-conductor High-Q inductor cable used in VLF/LF Helix Houses.</div> <div>-Commence examination of innovative lighting methods for high voltage Very Low Frequency (VLF)/Low Frequency (LF) towers.</div> <div>FY 2014 Plans:</div> <div>-Complete examination of innovative lighting methods for high voltage VLF/LF towers.</div> <div>-Commence examination of methods for reducing risk of fire or damage by detection of partial discharge in Helix House.</div> <div>-Complete examination of aging multi-conductor High-Q inductor cable used in VLF/LF Helix Houses.</div> |         |         |                 |                                                            |                  |         |                                           |         |            |                     |            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |                 |                                                            |                  |         |                                           |         |            |                     |            |  |
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| <div>Title: Broadcast Control Authority</div> <div>Articles:</div> <div>FY 2012 Accomplishments:</div> <div>-Commenced development of Submarine Operating Authority (SUBOPAUTH) communications tools including file repository, Operation Schedule (OpSked) Editor, Submarine Notes (SubNotes) Editor, and Web Off The Air Monitor (WebOTAM).</div> <div>-Developed candidate SUBOPAUTH options for information assurance integration.</div> <div>FY 2013 Plans:</div> <div>-Continue development of SUBOPAUTH communications tools including file repository, OpSked Editor, SubNotes Editor, and WebOTAM.</div> <div>FY 2014 Plans:</div> <div>-Complete development of SUBOPAUTH communications tools including file repository, OpSked Editor, SubNotes Editor, and WebOTAM.</div> <div>-Commence development of BCA System Monitor.</div>                                                                                                                                                                                                                                                                                                                                           |         |         |                 |                                                            |                  |         | 0.292<br>0                                |         | 0.269<br>0 |                     | 0.302<br>0 |  |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |         |                 |                                                            |                  |         | 13.865                                    |         | 18.187     |                     | 21.729     |  |
| C. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |         |                 |                                                            |                  |         |                                           |         |            |                     |            |  |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FY 2012 | FY 2013 | FY 2014<br>Base | FY 2014<br>OCO                                             | FY 2014<br>Total | FY 2015 | FY 2016                                   | FY 2017 | FY 2018    | Cost To<br>Complete | Total Cost |  |
| • OPN/3107: Submarine Broadcast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11.243  | 4.183   | 7.856           |                                                            | 7.856            | 11.237  | 18.828                                    | 16.422  | 18.629     | Continuing          | Continuing |  |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                            |                  |         |         |                                           | DATE: April 2013 |                     |            |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                  |         |         |                 | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |                  |         |         | PROJECT<br>1083: Shore To Ship Com System |                  |                     |            |
| C. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FY 2012 | FY 2013 | FY 2014<br>Base | FY 2014<br>OCO                                             | FY 2014<br>Total | FY 2015 | FY 2016 | FY 2017                                   | FY 2018          | Cost To<br>Complete | Total Cost |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| D. Acquisition Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| Low Band Universal Communications System (LBUCS): LBUCS is the modernization program that will upgrade the Transmit and Receive subsystems of the Fixed Submarine Broadcast System which are approaching their operational end of life. A cost plus incentive fee contract was awarded for Transmit subsystem development in 4Q FY09 with three sequential fixed price option Contract Line Item Numbers for production and deployment. The development of LBUCS Receive will commence in FY13. |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| E. Performance Metrics                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| LBUCS FY14: Complete LBUCS Transmit initial OT&E.                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| Concept Development/Systems Planning FY14: Determine appropriate United States/United Kingdom performance requirements to determine which concepts to pursue.                                                                                                                                                                                                                                                                                                                                   |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| Strategic Communications Assessment Program (SCAP)/Continuing Evaluation Program (CEP) FY14: Delivery of Submersible Ballistic Nuclear Submarine (SSBN) patrol reports.                                                                                                                                                                                                                                                                                                                         |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| High Voltage Improvement (HVIP) Program FY14: Complete examination of innovative lighting methods for high voltage Very Low Frequency (VLF)/Low Frequency (LF) towers.                                                                                                                                                                                                                                                                                                                          |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |
| Broadcast Control Authority (BCA) FY14: Complete development of Submarine Operating Authority (SUBOPAUTH) communications tools.                                                                                                                                                                                                                                                                                                                                                                 |         |         |                 |                                                            |                  |         |         |                                           |                  |                     |            |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy                                                                         |                        |                                                 |                 |         |            |                                                            |            |              |            |                                           |            | DATE: April 2013 |                  |            |                          |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------|-----------------|---------|------------|------------------------------------------------------------|------------|--------------|------------|-------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development |                        |                                                 |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |            |              |            | PROJECT<br>1083: Shore To Ship Com System |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                                                                                           |                        |                                                 |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                               |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                             | Contract Method & Type | Performing Activity & Location                  | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                      | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Systems Engineering                                                                                                            | WR                     | SSC PAC:San Diego, CA                           | 50.733          | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                         |            | 0.000            | Continuing       | Continuing | Continuing               |
| LBUCS: Systems Engineering                                                                                                     | WR                     | SSC LANT:Charleston, SC                         | 0.475           | 2.580   | Oct 2011   | 2.610                                                      | Oct 2012   | 3.228        | Oct 2013   | -                                         |            | 3.228            | Continuing       | Continuing | Continuing               |
| LBUCS: Primary Hardware Development                                                                                            | C/CPIF                 | SAIC:San Diego, CA                              | 10.340          | 1.346   | Nov 2011   | 0.000                                                      |            | 0.000        |            | -                                         |            | 0.000            | 0.000            | 11.686     |                          |
| Shore to Ship: Ancillary Hardware                                                                                              | WR                     | SSC PAC:San Diego, CA                           | 0.147           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                         |            | 0.000            | 0.000            | 0.147      |                          |
| Shore to Ship: Systems Engineering                                                                                             | WR                     | SSC PAC:San Diego, CA                           | 0.222           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                         |            | 0.000            | 0.000            | 0.222      |                          |
| Development Support                                                                                                            | WR                     | SSC PAC:San Diego, CA                           | 7.207           | 0.000   |            | 6.088                                                      | Oct 2012   | 4.195        | Oct 2013   | -                                         |            | 4.195            | Continuing       | Continuing | Continuing               |
| Software Development                                                                                                           | WR                     | SSC PAC:San Diego, CA                           | 12.367          | 0.000   |            | 0.466                                                      | Oct 2012   | 4.568        | Oct 2013   | -                                         |            | 4.568            | Continuing       | Continuing | Continuing               |
| Subtotal                                                                                                                       |                        |                                                 | 81.491          | 3.926   |            | 9.164                                                      |            | 11.991       |            | 0.000                                     |            | 11.991           |                  |            |                          |
| Support (\$ in Millions)                                                                                                       |                        |                                                 |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                               |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                             | Contract Method & Type | Performing Activity & Location                  | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                      | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Acquisition/Program Development                                                                                                | WR                     | SSC PAC:San Diego, CA                           | 1.506           | 0.575   | Oct 2011   | 0.279                                                      | Oct 2012   | 0.000        |            | -                                         |            | 0.000            | 0.000            | 2.360      |                          |
| LBUCS: Logistics Support                                                                                                       | C/CPFF                 | Cambridge International:Cambridge International | 1.716           | 0.248   | Jun 2012   | 0.363                                                      | Jun 2013   | 0.402        | Jun 2014   | -                                         |            | 0.402            | Continuing       | Continuing | Continuing               |
| LBUCS: Information Assurance                                                                                                   | C/CPFF                 | Merdan Group:San Diego, CA                      | 0.158           | 0.217   | Oct 2011   | 0.272                                                      | Oct 2012   | 0.314        | Oct 2013   | -                                         |            | 0.314            | Continuing       | Continuing | Continuing               |
| LBUCS: Information Assurance                                                                                                   | WR                     | SSC PAC:San Diego, CA                           | 0.000           | 0.000   |            | 0.254                                                      | Oct 2012   | 0.254        | Oct 2013   | -                                         |            | 0.254            | Continuing       | Continuing | Continuing               |
| LBUCS: Technical Data                                                                                                          | C/CPFF                 | ANSOL:San Diego, CA                             | 0.158           | 0.232   | Oct 2011   | 0.236                                                      | Oct 2012   | 0.236        | Oct 2013   | -                                         |            | 0.236            | Continuing       | Continuing | Continuing               |

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|--------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------------|---------|------------|------------------------------------------------------------|------------|--------------|------------|-------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy                                                                         |                        |                                   |                 |         |            |                                                            |            |              |            |                                           |            | DATE: April 2013 |                  |            |                          |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development |                        |                                   |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |            |              |            | PROJECT<br>1083: Shore To Ship Com System |            |                  |                  |            |                          |
| Support (\$ in Millions)                                                                                                       |                        |                                   |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                               |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                             | Contract Method & Type | Performing Activity & Location    | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                      | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| LBUCS: Acquisition/ Program Development                                                                                        | C/CPFF                 | CSA:San Diego, CA                 | 0.728           | 0.545   | Oct 2011   | 0.740                                                      | Oct 2012   | 0.763        | Oct 2013   | -                                         |            | 0.763            | Continuing       | Continuing | Continuing               |
| LBUCS: Systems Engineering                                                                                                     | C/CPFF                 | FSI:San Diego, CA                 | 0.300           | 0.207   | Oct 2011   | 0.307                                                      | Oct 2012   | 0.412        | Oct 2013   | -                                         |            | 0.412            | Continuing       | Continuing | Continuing               |
| LBUCS: Cost Estimating                                                                                                         | C/CPFF                 | Booz Allen Hamilton:San Diego, CA | 0.230           | 0.235   | Oct 2011   | 0.235                                                      | Oct 2012   | 0.241        | Oct 2013   | -                                         |            | 0.241            | Continuing       | Continuing | Continuing               |
| Shore to Ship: Software Development                                                                                            | WR                     | SSC PAC:San Diego, CA             | 0.229           | 0.397   | Oct 2011   | 0.204                                                      | Oct 2012   | 0.697        | Oct 2013   | -                                         |            | 0.697            | Continuing       | Continuing | Continuing               |
| Shore to Ship: Studies and Design                                                                                              | WR                     | SSC PAC:San Diego, CA             | 0.386           | 0.895   | Oct 2011   | 0.800                                                      | Oct 2012   | 0.646        | Oct 2013   | -                                         |            | 0.646            | Continuing       | Continuing | Continuing               |
| Shore to Ship: Broadcast Control Authority                                                                                     | C/CPFF                 | Predicate Logic:San Diego, CA     | 0.524           | 0.405   | Oct 2011   | 0.269                                                      | Oct 2012   | 0.214        | Oct 2013   | -                                         |            | 0.214            | Continuing       | Continuing | Continuing               |
| Subtotal                                                                                                                       |                        |                                   | 5.935           | 3.956   |            | 3.959                                                      |            | 4.179        |            | 0.000                                     |            | 4.179            |                  |            |                          |
| Test and Evaluation (\$ in Millions)                                                                                           |                        |                                   |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                               |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                             | Contract Method & Type | Performing Activity & Location    | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                      | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| SCAP/CEP: Strategic OP Systems Performance Evaluation                                                                          | C/CPFF                 | APL/JHU:Baltimore, MD             | 24.010          | 2.879   | May 2012   | 3.084                                                      | May 2013   | 3.811        | May 2014   | -                                         |            | 3.811            | Continuing       | Continuing | Continuing               |
| LBUCS: System Testing                                                                                                          | WR                     | COTF:Norfolk, VA                  | 0.177           | 0.195   | Oct 2011   | 0.300                                                      | Oct 2012   | 0.300        | Oct 2013   | -                                         |            | 0.300            | Continuing       | Continuing | Continuing               |
| LBUCS: System Testing                                                                                                          | WR                     | SSC PAC:San Diego, CA             | 0.238           | 0.250   | Oct 2011   | 0.316                                                      | Oct 2012   | 0.789        | Oct 2013   | -                                         |            | 0.789            | Continuing       | Continuing | Continuing               |
| Subtotal                                                                                                                       |                        |                                   | 24.425          | 3.324   |            | 3.700                                                      |            | 4.900        |            | 0.000                                     |            | 4.900            |                  |            |                          |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--------------------------------------------------------------------------|--|--|--|---------------------------------------------------------|--|-------------------------|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Navy                                                                                       |  |  |  |  |  |  |                                                                          |  |  |  |                                                         |  | <b>DATE:</b> April 2013 |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> |  |  |  |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> |  |  |  | <b>PROJECT</b><br>1083: <i>Shore To Ship Com System</i> |  |                         |  |  |

| <b>Management Services (\$ in Millions)</b> |                                           |                                               |                            | <b>FY 2012</b> |                       | <b>FY 2013</b> |                       | <b>FY 2014<br/>Base</b> |                       | <b>FY 2014<br/>OCO</b> |                       | <b>FY 2014<br/>Total</b> |                             |                       |                                         |
|---------------------------------------------|-------------------------------------------|-----------------------------------------------|----------------------------|----------------|-----------------------|----------------|-----------------------|-------------------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------------|-----------------------|-----------------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract<br/>Method<br/>&amp; Type</b> | <b>Performing<br/>Activity &amp; Location</b> | <b>All Prior<br/>Years</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>             | <b>Award<br/>Date</b> | <b>Cost</b>            | <b>Award<br/>Date</b> | <b>Cost</b>              | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
| Contractor Engineering Support              | MIPR                                      | MITRE:San Diego, CA                           | 1.777                      | 1.510          | Oct 2011              | 0.000          |                       | 0.000                   |                       | -                      |                       | 0.000                    | 0.000                       | 3.287                 |                                         |
| LBUCS: Program Management                   | WR                                        | SSC PAC:San Diego, CA                         | 5.803                      | 1.049          | Oct 2011              | 1.314          | Oct 2012              | 0.559                   | Oct 2013              | -                      |                       | 0.559                    | Continuing                  | Continuing            | Continuing                              |
| LBUCS: Travel                               | WR                                        | SSC PAC:San Diego, CA                         | 0.266                      | 0.100          | Oct 2011              | 0.050          | Oct 2012              | 0.100                   | Oct 2013              | -                      |                       | 0.100                    | Continuing                  | Continuing            | Continuing                              |
| <b>Subtotal</b>                             |                                           |                                               | 7.846                      | 2.659          |                       | 1.364          |                       | 0.659                   |                       | 0.000                  |                       | 0.659                    |                             |                       |                                         |

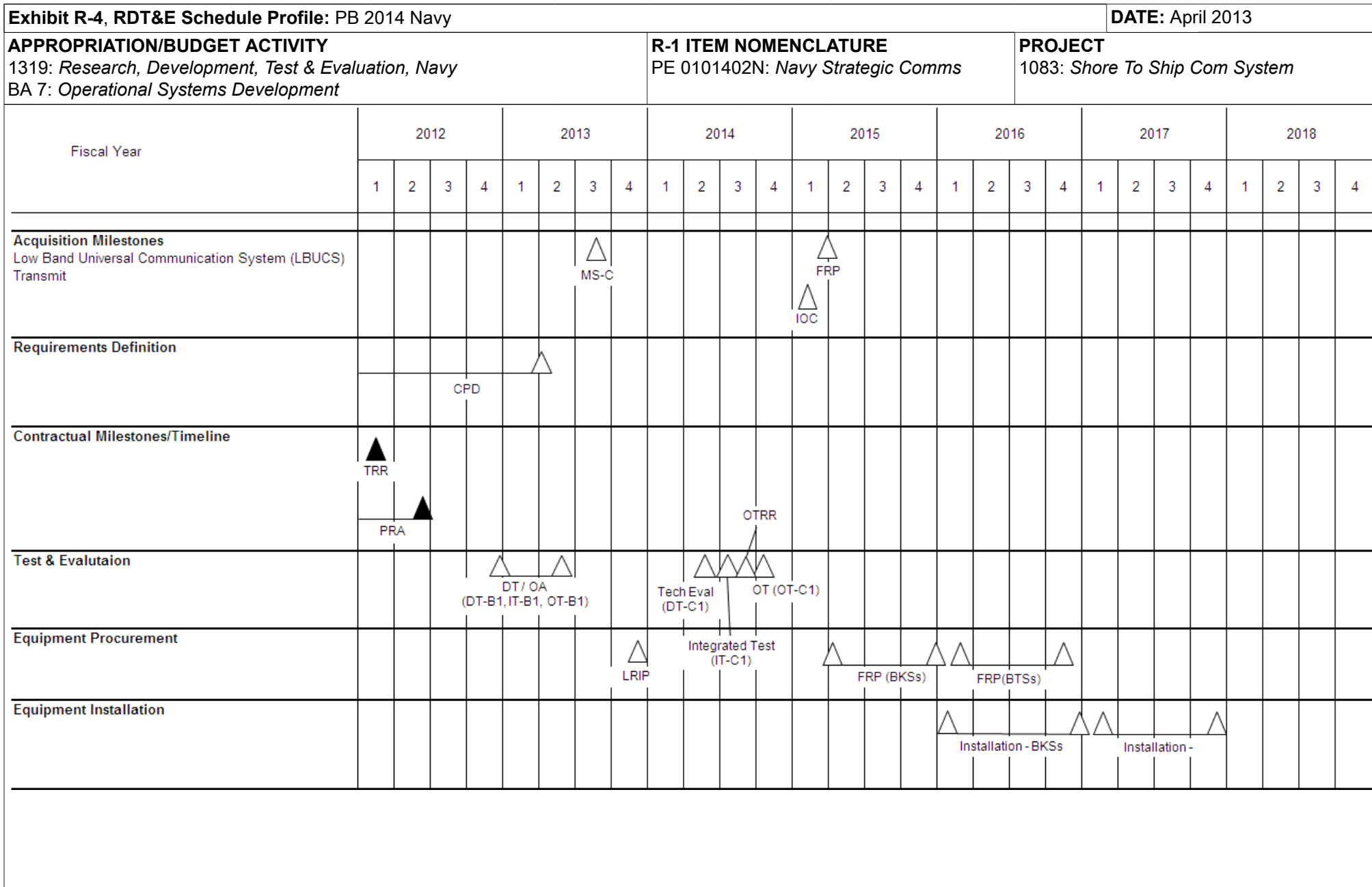
  

|                            | <b>All Prior<br/>Years</b> | <b>FY 2012</b> |  | <b>FY 2013</b> |  | <b>FY 2014<br/>Base</b> |  | <b>FY 2014<br/>OCO</b> |  | <b>FY 2014<br/>Total</b> | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
|----------------------------|----------------------------|----------------|--|----------------|--|-------------------------|--|------------------------|--|--------------------------|-----------------------------|-----------------------|-----------------------------------------|
| <b>Project Cost Totals</b> | 119.697                    | 13.865         |  | 18.187         |  | 21.729                  |  | 0.000                  |  | 21.729                   |                             |                       |                                         |

**Remarks**

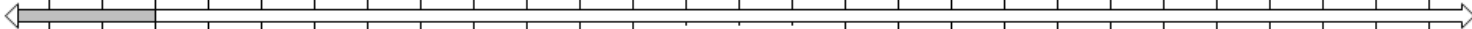
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| Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy                                             |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   | DATE: April 2013 |      |   |   |   |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------|------|---|---|---|------|---|---|---|------|---|---|-----------------------------------|------|---|---|---|------|---|---|--------------------------------|------|---|---|------------------|------|---|---|---|--|--|--|--|--|--|--|--|--|
| APPROPRIATION/BUDGET ACTIVITY                                                                 |      |   |   |   |      |   |   |   |      |   |   | R-1 ITEM NOMENCLATURE             |      |   |   |   |      |   |   | PROJECT                        |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| 1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development |      |   |   |   |      |   |   |   |      |   |   | PE 0101402N: Navy Strategic Comms |      |   |   |   |      |   |   | 1083: Shore To Ship Com System |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Fiscal Year                                                                                   | 2012 |   |   |   | 2013 |   |   |   | 2014 |   |   |                                   | 2015 |   |   |   | 2016 |   |   |                                | 2017 |   |   |                  | 2018 |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                               | 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 |  |  |  |  |  |  |  |  |  |
| Acquisition Milestones                                                                        |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Low Band Universal Communication System (LBUCS) Receive                                       |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Contractual Milestones/Timeline                                                               |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                               |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Test & Evalutaion                                                                             |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Equipment Procurement                                                                         |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Equipment Installation                                                                        |      |   |   |   |      |   |   |   |      |   |   |                                   |      |   |   |   |      |   |   |                                |      |   |   |                  |      |   |   |   |  |  |  |  |  |  |  |  |  |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|---|---|------|---|-----------------------------------------------------------------------------------|---|------|--------------------------------------------------------------------------|---|---|---------|---|---|---|------|---|---|---------------------------------------------------------|------|---|---|---|------|---|---|---|
| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2014 Navy</b>                                                                                            |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   | <b>DATE:</b> April 2013                                 |      |   |   |   |      |   |   |   |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> |                                                                                    |   |   |   |      |   |                                                                                   |   |      | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> |   |   |         |   |   |   |      |   |   | <b>PROJECT</b><br>1083: <i>Shore To Ship Com System</i> |      |   |   |   |      |   |   |   |
| Fiscal Year                                                                                                                                             | 2012                                                                               |   |   |   | 2013 |   |                                                                                   |   | 2014 |                                                                          |   |   | 2015    |   |   |   | 2016 |   |   |                                                         | 2017 |   |   |   | 2018 |   |   |   |
|                                                                                                                                                         | 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 |
| <b>Studies and Analysis</b><br>Strategic Communications Assessment Program (SCAP) Continuing Evaluation Program (CEP)                                   |  |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   | Ongoing |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
| <b>Milestones and Deliverables</b>                                                                                                                      |                                                                                    |   |   |   |      |   |  |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
| <b>Contractual Milestones/Timelines</b>                                                                                                                 |                                                                                    |   |   |   |      |   |  |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |
|                                                                                                                                                         |                                                                                    |   |   |   |      |   |                                                                                   |   |      |                                                                          |   |   |         |   |   |   |      |   |   |                                                         |      |   |   |   |      |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy                                                                                           |                                                                          |                                                         | <b>DATE:</b> April 2013 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> | <b>PROJECT</b><br>1083: <i>Shore To Ship Com System</i> |                         |

**Schedule Details**

| Events by Sub Project                                                      | Start   |      | End     |      |
|----------------------------------------------------------------------------|---------|------|---------|------|
|                                                                            | Quarter | Year | Quarter | Year |
| <b>Proj 1083</b>                                                           |         |      |         |      |
| LBUCS: Production Representative Article (PRA) - Transmit                  | 1       | 2012 | 2       | 2012 |
| LBUCS: Capability Production Document (CPD) - Transmit                     | 1       | 2012 | 2       | 2013 |
| LBUCS: Technology Readiness Review (TRR) - Transmit                        | 1       | 2012 | 1       | 2012 |
| LBUCS: Developmental Test/Operational Assesment (DT/OA) - Transmit         | 4       | 2012 | 2       | 2013 |
| LBUCS: Production Representative Article (PRA) - Receive                   | 1       | 2013 | 4       | 2014 |
| LBUCS: Milestone-C (MS-C) - Transmit                                       | 3       | 2013 | 3       | 2013 |
| LBUCS: Production Design Review (PDR) - Receive                            | 3       | 2013 | 3       | 2013 |
| LBUCS: Critical Design Review (CDR) - Receive                              | 4       | 2013 | 4       | 2013 |
| LBUCS: Low Rate Initial Production (LRIP) - Transmit                       | 4       | 2013 | 2       | 2014 |
| LBUCS: Developmental Test/Technical Evaluation (DT/TE) - Transmit          | 2       | 2014 | 2       | 2014 |
| LBUCS: Integrated Test (IT) - Transmit                                     | 3       | 2014 | 3       | 2014 |
| LBUCS: Operational Test Readiness Review (OTRR) - Transmit                 | 3       | 2014 | 3       | 2014 |
| LBUCS: Operational Test (OT) - Transmit                                    | 4       | 2014 | 4       | 2014 |
| LBUCS: Initial Operational Capability (IOC) - Transmit                     | 1       | 2015 | 1       | 2015 |
| LBUCS: Developmental Test/Operational Assesment (DT/OA) - Receive          | 1       | 2015 | 1       | 2015 |
| LBUCS: Full Rate Production Milestone (FRP) - Transmit                     | 1       | 2015 | 1       | 2015 |
| LBUCS: EDM Program Review - Receive                                        | 2       | 2015 | 2       | 2015 |
| LBUCS: Broadcast Keying Site (BKS) Full Rate Production (FRP) - Transmit   | 2       | 2015 | 4       | 2015 |
| LBUCS: Broadcast Transmit Site (BTS) Full Rate Production (FRP) - Transmit | 1       | 2016 | 4       | 2016 |
| LBUCS: Full Rate Production (FRP) - Receive                                | 4       | 2015 | 4       | 2018 |
| LBUCS: Installation Broadcast Keying Site (BKS) - Transmit                 | 1       | 2016 | 4       | 2016 |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy                                                                                           |  |                                                                          | <b>DATE:</b> April 2013 |                                                         |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> |                         | <b>PROJECT</b><br>1083: <i>Shore To Ship Com System</i> |
|                                                                                                                                                         |  | <b>Start</b>                                                             |                         | <b>End</b>                                              |
| <b>Events by Sub Project</b>                                                                                                                            |  | <b>Quarter</b>                                                           | <b>Year</b>             | <b>Quarter</b>                                          |
| LBUCS: Installation - Receive                                                                                                                           |  | 1                                                                        | 2016                    | 4                                                       |
| LBUCS: Installation Broadcast Transmit Site (BTS) - Transmit                                                                                            |  | 1                                                                        | 2017                    | 4                                                       |
| CEP: Studies and Analysis                                                                                                                               |  | 1                                                                        | 2012                    | 4                                                       |
| CEP: Analysis Automation                                                                                                                                |  | 3                                                                        | 2013                    | 3                                                       |
| CEP: Task Order                                                                                                                                         |  | 1                                                                        | 2013                    | 1                                                       |
| LBUCS: Low Rate Initial Production - Receive                                                                                                            |  | 2                                                                        | 2015                    | 2                                                       |
| LBUCS: Full Fielding Program Review - Receive                                                                                                           |  | 4                                                                        | 2015                    | 4                                                       |
| LBUCS: Developmental Testing- Receive                                                                                                                   |  | 3                                                                        | 2015                    | 3                                                       |
| LBUCS: Operational Testing- Receive                                                                                                                     |  | 3                                                                        | 2015                    | 3                                                       |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|------------------------------------------------------------|---------------|---------|---------|----------------------------------------------|------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                            |               |         |         |                                              | DATE: April 2013 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |               |         |         | PROJECT<br>3002: Navy Strategic Comm Project |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                                  | FY 2014 Total | FY 2015 | FY 2016 | FY 2017                                      | FY 2018          | Cost To Complete | Total Cost |
| 3002: Navy Strategic Comm Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 259.187         | 10.210  | 1.021                | 0.000        | -                                                          | 0.000         | 0.000   | 0.000   | 0.000                                        | 0.000            | 0.000            | 270.418    |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0               | 0       | 0                    | 0            |                                                            | 0             | 0       | 0       | 0                                            | 0                |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| The E-6B Block I modification program corrects Airborne National Command Post program Follow-On Operational Test and Evaluation operational suitability deficiencies and addresses legacy system obsolescence issues. Without the Block I program, legacy system obsolescence will result in several unsupportable mission systems. Block I designs, develops, integrates, and tests a Multi-Level Security (MLS) system, Open Systems Architecture (OSA); replaces the intercommunications and Mission Computer Set; modifies the cooling, electrical, and Ultra-High Frequency Command, Control and Communications system; and addresses Internet Protocol Bandwidth Expansion impacts to pre-Block I baseline aircraft. Block I adds operator workstations throughout the aircraft to reduce workload and improve system interoperability, and provides a foundation for evolutionary upgrades. Other modifications (Block IA Engineering Change Proposal (ECP)) include: an additional Auxiliary Power Unit to enhance power and cooling capabilities supporting the additional systems in the MLS system, OSA, a Very Low Frequency Transmitter obsolescence replacement, and a High Power Transmit Set subsystem refurbishment. |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                            |               |         |         |                                              | FY 2012          | FY 2013          | FY 2014    |
| Title: Conduct Developmental Test (DT) Governmental Training<br><br>Articles:<br><br>FY 2012 Accomplishments:<br>Continue Block IA ECP DT Governmental Training efforts.<br><br>FY 2013 Plans:<br>Complete Block IA ECP DT Governmental Training efforts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                      |              |                                                            |               |         |         |                                              | 0.604            | 0.250            | 0.000      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                            |               |         |         |                                              | 0                | 0                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| Title: Prototype Aircraft Installation<br><br>Articles:<br><br>FY 2012 Accomplishments:<br>Continue Block IA ECP Prototype Aircraft Installation efforts.<br><br>FY 2013 Plans:<br>Complete Block IA ECP Prototype Aircraft Installation efforts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |         |                      |              |                                                            |               |         |         |                                              | 9.108            | 0.771            | 0.000      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                            |               |         |         |                                              | 0                | 0                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                            |               |         |         |                                              |                  |                  |            |
| Title: Developmental/Operational Testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |         |                      |              |                                                            |               |         |         |                                              | 0.498            | 0.000            | 0.000      |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy                                                                                      |  |  |  |                                                                          |  |  | <b>DATE:</b> April 2013                                    |  |  |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 7: <i>Operational Systems Development</i> |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: <i>Navy Strategic Comms</i> |  |  | <b>PROJECT</b><br>3002: <i>Navy Strategic Comm Project</i> |  |  |  |  |

|                                                                                                                                     |  |                |                |                |
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| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>                                             |  | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014</b> |
| <i>Articles:</i>                                                                                                                    |  | 0              |                |                |
| <b><i>FY 2012 Accomplishments:</i></b><br>Begin and complete Block IA ECP operational testing to obtain a successful OPEVAL report. |  |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                   |  | 10.210         | 1.021          | 0.000          |

|                                                                                                                                                                                                                                                                                                                                                                       |                |                |                         |                        |                          |                |                |                |                |                             |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                              |                |                |                         |                        |                          |                |                |                |                |                             |                   |
| <b>Line Item</b>                                                                                                                                                                                                                                                                                                                                                      | <b>FY 2012</b> | <b>FY 2013</b> | <b>FY 2014<br/>Base</b> | <b>FY 2014<br/>OCO</b> | <b>FY 2014<br/>Total</b> | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b> |
| • APN 056400: <i>E-6 A/B Series</i>                                                                                                                                                                                                                                                                                                                                   | 152.211        | 158.332        | 189.312                 |                        | 189.312                  | 214.450        | 198.952        | 202.520        | 206.129        | 368.857                     | 2,172.462         |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                        |                |                |                         |                        |                          |                |                |                |                |                             |                   |
| <b>D. Acquisition Strategy</b><br>Competitively awarded Cost Plus Award Fee development contract. The current contract was modified on 13 April 2007 to a Cost Plus Incentive Fee contract. A new sole source Firm Fixed Price (FFP) contract was awarded for LRIP in 4th quarter of FY2010 with Full Rate Production being a new sole source follow-on FFP contract. |                |                |                         |                        |                          |                |                |                |                |                             |                   |
| <b>E. Performance Metrics</b><br>Block I Milestone C decision achieved in 3rd quarter FY2010.<br>FRP Contract Award 1st quarter FY2013.<br>Block I IOC planned for 2nd quarter FY2014.                                                                                                                                                                                |                |                |                         |                        |                          |                |                |                |                |                             |                   |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy                                                                                                                              |                        |                                   |                 |         |            |                                                            |            |              |            |                                              |            | DATE: April 2013 |                  |            |                          |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development                                                      |                        |                                   |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0101402N: Navy Strategic Comms |            |              |            | PROJECT<br>3002: Navy Strategic Comm Project |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                                                                                                                                                |                        |                                   |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                                  |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                                                                  | Contract Method & Type | Performing Activity & Location    | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                         | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Primary Hardware Development Block I*                                                                                                                                               | C/CPIF                 | Rockwell Collins:Cedar Rapids, IA | 142.880         | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                            |            | 0.000            | 0.000            | 142.880    | 142.880                  |
| Award Fees                                                                                                                                                                          | C/CPAF                 | Rockwell Collins:Cedar Rapids, IA | 3.751           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                            |            | 0.000            | 0.000            | 3.751      | 3.751                    |
| Primary Hardware Development Block IA ECP**                                                                                                                                         | C/CPIF                 | Rockwell Collins:Cedar Rapids, IA | 31.641          | 9.818   | Nov 2011   | 0.821                                                      | Feb 2013   | 0.000        |            | -                                            |            | 0.000            | 0.000            | 42.280     | 42.280                   |
| Ancillary Hardware Development                                                                                                                                                      | C/CPIF                 | Rockwell Collins:Cedar Rapids, IA | 4.933           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                            |            | 0.000            | 0.000            | 4.933      | 4.933                    |
| Training Development WST                                                                                                                                                            | C/CPIF                 | Rockwell Collins:Cedar Rapids, IA | 1.213           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                            |            | 0.000            | 0.000            | 1.213      | 1.213                    |
| Subtotal                                                                                                                                                                            |                        |                                   | 184.418         | 9.818   |            | 0.821                                                      |            | 0.000        |            | 0.000                                        |            | 0.000            | 0.000            | 195.057    | 195.057                  |
| Remarks                                                                                                                                                                             |                        |                                   |                 |         |            |                                                            |            |              |            |                                              |            |                  |                  |            |                          |
| * The Rockwell Collins Primary Hardware Development Block I contract was converted from a Competitively Awarded/Cost plus Award Fee to a Cost Plus Incentive Fee beginning in FY07. |                        |                                   |                 |         |            |                                                            |            |              |            |                                              |            |                  |                  |            |                          |
| ** The Rockwell Collins Primary Hardware Development Block IA Engineering Change Proposal (ECP) contract was definitized in July 2010.                                              |                        |                                   |                 |         |            |                                                            |            |              |            |                                              |            |                  |                  |            |                          |
| Support (\$ in Millions)                                                                                                                                                            |                        |                                   |                 | FY 2012 |            | FY 2013                                                    |            | FY 2014 Base |            | FY 2014 OCO                                  |            | FY 2014 Total    |                  |            |                          |
| Cost Category Item                                                                                                                                                                  | Contract Method & Type | Performing Activity & Location    | All Prior Years | Cost    | Award Date | Cost                                                       | Award Date | Cost         | Award Date | Cost                                         | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Studies & Analyses                                                                                                                                                                  | Various                | Various:Not Specified             | 4.477           | 0.000   |            | 0.000                                                      |            | 0.000        |            | -                                            |            | 0.000            | 0.000            | 4.477      |                          |
| Subtotal                                                                                                                                                                            |                        |                                   | 4.477           | 0.000   |            | 0.000                                                      |            | 0.000        |            | 0.000                                        |            | 0.000            | 0.000            | 4.477      |                          |

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| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>                                                                     |                                   |                                           |                        |                |                   |                                                                   |                   |                     |                   |                    |                   | <b>DATE:</b> April 2013                             |                         |                   |                                 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: Research, Development, Test & Evaluation, Navy<br>BA 7: Operational Systems Development |                                   |                                           |                        |                |                   | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0101402N: Navy Strategic Comms |                   |                     |                   |                    |                   | <b>PROJECT</b><br>3002: Navy Strategic Comm Project |                         |                   |                                 |
| <b>Test and Evaluation (\$ in Millions)</b>                                                                                           |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                    |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                             | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</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>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Developmental Test & Evaluation                                                                                                       | WR                                | NAWCAD:Patuxent River, MD                 | 0.668                  | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 0.668             |                                 |
| Operational Test & Evaluation                                                                                                         | WR                                | NAWCAD:Patuxent River, MD                 | 2.148                  | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 2.148             |                                 |
| Other Support                                                                                                                         | WR                                | NAVAIR HQ:Patuxent River, MD              | 3.645                  | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 3.645             |                                 |
| <b>Subtotal</b>                                                                                                                       |                                   |                                           | 6.461                  | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 6.461             |                                 |
| <b>Management Services (\$ in Millions)</b>                                                                                           |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                    |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                             | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</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>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Contractor Engineering Support                                                                                                        | Various                           | Various:Not Specified                     | 13.700                 | 0.150          | May 2012          | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 13.850            |                                 |
| Governmental Support                                                                                                                  | Various                           | Various:Not Specified                     | 37.728                 | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 37.728            |                                 |
| Program Management Support                                                                                                            | Various                           | Various:Not Specified                     | 10.550                 | 0.000          |                   | 0.000                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 10.550            |                                 |
| Travel                                                                                                                                | WR                                | NAVAIR HQ:Patuxent River, MD              | 1.853                  | 0.242          | Nov 2011          | 0.200                                                             | Nov 2012          | 0.000               |                   | -                  |                   | 0.000                                               | 0.000                   | 2.295             |                                 |
| <b>Subtotal</b>                                                                                                                       |                                   |                                           | 63.831                 | 0.392          |                   | 0.200                                                             |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 64.423            |                                 |
|                                                                                                                                       |                                   |                                           | <b>All Prior Years</b> | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                    |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Project Cost Totals</b>                                                                                                            |                                   |                                           | 259.187                | 10.210         |                   | 1.021                                                             |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 270.418           |                                 |
| <b>Remarks</b>                                                                                                                        |                                   |                                           |                        |                |                   |                                                                   |                   |                     |                   |                    |                   |                                                     |                         |                   |                                 |