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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                                     |               |         |         |         | DATE: April 2013 |                  |            |
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| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |               |         |         |         |                  |                  |            |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2,022.912       | 55.546  | 63.891               | 75.592       | -                                                                   | 75.592        | 80.042  | 31.159  | 20.002  | 20.355           | Continuing       | Continuing |
| 0439: Standard Missile Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,050.958       | 16.918  | 24.579               | 26.716       | -                                                                   | 26.716        | 17.774  | 21.844  | 16.165  | 16.448           | Continuing       | Continuing |
| 3092: Standard Missile 6 Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 971.954         | 38.628  | 39.312               | 48.876       | -                                                                   | 48.876        | 62.268  | 9.315   | 3.837   | 3.907            | Continuing       | Continuing |
| MDAP/MAIS Code(s): 197,391                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                      |              |                                                                     |               |         |         |         |                  |                  |            |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |                      |              |                                                                     |               |         |         |         |                  |                  |            |
| Standard Missile (SM) is the Navy's premier Anti-Air Warfare (AAW) missile, providing both area air defense for the fleet and self defense for individual AEGIS CGs and DDGs, as required by the Joint Theater Air Missile Defense (TAMD), Mission Need Statement (MNS), Defense Planning Guidance (DPG), Quadrennial Defense Review (QDR), and Ship Class AAW Self Defense Capstone Requirements Document. Agility, fuzing, and computer modifications to SM are in development to restore performance in the near term against a specific existing proliferating Anti-Ship Cruise Missile (ASCM) threat. Continuous analysis of missile capabilities vs. ever-evolving and proliferating aircraft and ASCM threats and long-range planning are required to keep pace with the threat.                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                      |              |                                                                     |               |         |         |         |                  |                  |            |
| In FY04, the Standard Missile 6 (SM-6) program was started to develop an advanced surface missile system with an active seeker and an extended range. The SM-6 missile system will leverage the Navy investment in the AEGIS Weapon System (AWS), Cooperative Engagement Capability (CEC), and airborne early warning systems, which will be upgraded in concert with missile development to support a fully integrated extended range detect-to-engage naval and joint integrated fire control capability. SM-6 is the enabler for Integrated Fire Control (IFC). Funding to support those upgrades are also included in this line. SM-6 has completed the ground based and at-sea DT flight test phase of the System Development & Demonstration (SDD) effort. SDD at-sea OT phase completed July 2011. Together, this family of systems will provide the air superiority and the umbrella of protection against the full spectrum of projected future cruise missile (anti-ship and land attack) and manned aircraft threats discussed in the Joint TAMD MNS, DPG, QDR, IAMD Roadmap, IAMD Joint Integrating Concept, AIAMD Joint Operating Concept and TAMD Capstone Requirements Document. |                 |         |                      |              |                                                                     |               |         |         |         |                  |                  |            |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2014 Navy</b> | <b>DATE:</b> April 2013 |
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| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 5: <i>System Development &amp; Demonstration (SDD)</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> |
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| <b>B. Program Change Summary (\$ 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> |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 46.705         | 63.891         | 57.660              | -                  | 57.660               |
| Current President's Budget                        | 55.546         | 63.891         | 75.592              | -                  | 75.592               |
| Total Adjustments                                 | 8.841          | 0.000          | 17.932              | -                  | 17.932               |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | 10.000         | 0.000          |                     |                    |                      |
| • SBIR/STTR Transfer                              | -1.159         | 0.000          |                     |                    |                      |
| • Program Adjustments                             | 0.000          | 0.000          | -2.082              | -                  | -2.082               |
| • Rate/Misc Adjustments                           | 0.000          | 0.000          | 20.014              | -                  | 20.014               |

**Change Summary Explanation**

Technical: Program funding increased in FY14 and FY15 to execute and support demonstration(s). Program funding increased in FY 12 to complete supplemental testing to verify correction of deficiencies for the F & J antenna seen during FY 11 operational testing. This funding is also to complete the Ballistic Barrier program.

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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 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |               |         |         | PROJECT<br>0439: Standard Missile Improvement |                  |                  |            |
| 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 |
| 0439: Standard Missile Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,050.958       | 16.918  | 24.579               | 26.716       | -                                                                   | 26.716        | 17.774  | 21.844  | 16.165                                        | 16.448           | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |
| Modifications to SM-2 BLK IIIA are required for use on DDG-1000 class destroyers. The Joint Universal Waveform Link (JUWL) will be integrated with the Evolved Seasparrow Missile (ESSM) and Standard Missile to communicate with the DDG-1000 SPY-3 radar. SM-2 missile software will be updated with interrupted continuous wave illumination (ICWI) in order to allow operation with DDG-1000.                                                                                                                                                                                                                                                                                                                                |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |
| Missile integration with AMDR-S radar for DDG 51 Flight III ships will include requirements review/updates and analysis, verification; technical documentation, design review and working group SME support, missile/radar integration, missile test hardware procurement, risk assessment, safety, test and evaluation planning, analysis, data collection. Deliverables include interface specs and engineering documents to support AMDR PDRs HW&SW (FY13) and CDRs HW&SW (FY14); EDM testing (FY15), interface specs and engineering documents to support AMDR/ACBNext for DDG 51 Flight III E3 Testing, Analysis and Reports. Missile variants: ESSM Block I; SM-2 Blk IIIB MU2, SM-6 Block I (Current Aegis Configuration) |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |                      |              |                                                                     |               |         |         | FY 2012                                       | FY 2013          | FY 2014          |            |
| Title: DDG-1000 Pre Plan Product Improvement (P3I)Link Integration/ICWI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                                     |               |         |         | 16.918                                        | 19.945           | 12.706           |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |                      |              |                                                                     |               |         |         | 0                                             | 0                | 0                |            |
| FY 2012 Accomplishments:<br>Completed ESSM Critical Design Review in April 2012; Procured and assembled ESSM Production Representative Model (PRM) modules and conducted associated qualification testing; Procured SM-2 Plate 3 Proof of Design (POD) hardware and integrated modules into a functional transceiver; Conducted SM-2 Plate 3 X-band transmitter (only) design verification testing (DVT); Began SM-2 software integration with hardware.                                                                                                                                                                                                                                                                         |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |
| FY 2013 Plans:<br>Conduct ESSM PRM qualification testing and EMI/E3 testing; Conduct SM-2 POD Plate 3 DVT; Complete SM-2 JUWL Preliminary Design Review in May 2013; Procure and assemble SM-2 Production Representative Model (PRM) modules and conduct associated qualification testing.                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |
| FY 2014 Plans:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |                      |              |                                                                     |               |         |         |                                               |                  |                  |            |

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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 5: <i>System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> | <b>PROJECT</b><br>0439: <i>Standard Missile Improvement</i> |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>FY 2012</b>                                                                    | <b>FY 2013</b>                                              |
| Deliver ESSM inert operational missile (IOM) to DDG 1000 and begin ship interface checkout and integration testing; Conduct SM-2 Plate 3 qualification testing; Hold SM-2 JUWL Critical Design Review in May 2014; Assemble/integrate SM-2 modules and software into a functional missile guidance section.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                   |                                                             |
| <b>Title:</b> DDG 1000 Rephase<br><br><b>FY 2013 Plans:</b><br>Procure test round modification kits to upgrade Block IIAs to Zumwalt IIAs, test, and deliver Zumwalt IIIA rounds (including canisters) for developmental testing (DT).                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 0.000                                                                             | 2.799<br>0                                                  |
| <b>Title:</b> Air and Missile Defense Radar (AMDR)Integration<br><br><b>FY 2013 Plans:</b><br>AMDR Spec requirements review; conduct analysis required for requirements margin within current missile ICDs; Support AMDR Prime design review Technical Interchange Meetings; Engineering studies as required.<br><br><b>FY 2014 Plans:</b><br>Hardware (IOM/Spare parts) procurement - 1 IOM per missile variant; Design review participation with Radar Prime Contractor, facilitate design that complies with existing interfaces (including NIFC-CA); Analysis to include examination of new radar in natural and threat RF environments; performance analysis; Model updates. |  | 0.000                                                                             | 1.835<br>0                                                  |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 16.918                                                                            | 24.579                                                      |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                   |                                                             |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                   |                                                             |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                   |                                                             |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                   |                                                             |
| Production representative missiles will be built for ESSM between FY12 and 14 and for SM-2 FY14 and FY17.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                   |                                                             |
| Engineering and Integration Testing for ESSM in FY14- FY15 and SM-2 in FY15. 67 ESSM missiles and 34 SM missiles are required to support Developmental Test & Operational Test (DT & OT) FY16-FY17 and continue follow-on ship integration and design update effort in FY18.                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                   |                                                             |
| This budget reflects the procurement of the initial SM Flight Test Rounds (FTRs) in FY 13. Follow-on SM/ESSM FTRs, missile integration and test efforts and ship fill records are not funded within this budget. The 67 ESSM missiles are to be funded by PMS 500.                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                   |                                                             |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            | DATE: April 2013                                     |
| APPROPRIATION/BUDGET ACTIVITY<br>1319: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 5: <i>System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R-1 ITEM NOMENCLATURE<br>PE 0604366N: <i>Standard Missile Improvements</i> | PROJECT<br>0439: <i>Standard Missile Improvement</i> |
| <p>SM Development, integration, and test is expected to conclude by FY17 for the X-band JUWL and ICWL.</p> <p><b>E. Performance Metrics</b></p> <p>ESSM initial engineering design for X-Band JUWL capability was completed and Engineering Development Models (EDMs) were built and tested.</p> <p>ESSM ordered material/parts and assembled Proof of Design units. Design Verification Tests are complete (FY 12).</p> <p>ESSM conducted its Critical Design Review in April 2012 (FY 12).</p> <p>SM-2 PDR for JUWL is planned for third quarter FY13.</p> <p>SM-2 integration testing and datalink qualification for JUWL testing is planned for FY14.</p> |                                                                            |                                                      |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy                                                                                  |                              |                                   |                    |         |               |                                                                        |               |                 |               |                                               |               | DATE: April 2013 |                     |               |                                |
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| APPROPRIATION/BUDGET ACTIVITY<br>1319: Research, Development, Test & Evaluation, Navy<br>BA 5: System Development & Demonstration (SDD) |                              |                                   |                    |         |               | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile<br>Improvements |               |                 |               | PROJECT<br>0439: Standard Missile Improvement |               |                  |                     |               |                                |
| Product Development (\$ in Millions)                                                                                                    |                              |                                   |                    | FY 2012 |               | FY 2013                                                                |               | FY 2014<br>Base |               | FY 2014<br>OCO                                |               | FY 2014<br>Total |                     |               |                                |
| Cost Category Item                                                                                                                      | Contract<br>Method<br>& Type | Performing<br>Activity & Location | All Prior<br>Years | Cost    | Award<br>Date | Cost                                                                   | Award<br>Date | Cost            | Award<br>Date | Cost                                          | Award<br>Date | Cost             | Cost To<br>Complete | Total<br>Cost | Target<br>Value of<br>Contract |
| Design and Analysis1                                                                                                                    | SS/CPAF                      | RAYTHEON:Tucson, AZ               | 220.476            | 14.510  | Feb 2012      | 21.644                                                                 | Nov 2012      | 24.231          | Nov 2013      | -                                             |               | 24.231           | Continuing          | Continuing    | Continuing                     |
| Design and Analysis2                                                                                                                    | C/CPFF                       | JHU/APL:Laurel, MD                | 3.750              | 0.951   | Mar 2012      | 1.500                                                                  | Nov 2012      | 1.500           | Nov 2013      | -                                             |               | 1.500            | 0.000               | 7.701         |                                |
| Design and Analysis3                                                                                                                    | MIPR                         | MIT/Lin Lab:Lexington, MA         | 0.050              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.050         |                                |
| Design and Analysis4                                                                                                                    | WR                           | NSWC:Dahlgren                     | 787.314            | 0.670   | Apr 2012      | 0.340                                                                  | Nov 2012      | 0.320           | Nov 2013      | -                                             |               | 0.320            | 0.000               | 788.644       |                                |
| Design and Analysis5                                                                                                                    | WR                           | NSWC:Indian Head                  | 0.940              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.940         |                                |
| Design and Analysis6                                                                                                                    | WR                           | NAWC:China Lake                   | 3.030              | 0.150   | Jan 2012      | 0.480                                                                  | Nov 2012      | 0.570           | Nov 2013      | -                                             |               | 0.570            | 0.000               | 4.230         |                                |
| Design and Analysis7                                                                                                                    | Various                      | LOCKHEED MARTIN:Moorestown, NJ    | 17.775             | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 17.775        |                                |
| Design and Analysis8                                                                                                                    | WR                           | CNO:Washington, DC                | 0.010              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.010         |                                |
| Design and Analysis9                                                                                                                    | WR                           | CMDP:Phoenix, AZ                  | 4.795              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 4.795         |                                |
| Design and Analysis11                                                                                                                   | WR                           | NSWC:Crane                        | 0.257              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.257         |                                |
| Design and Analysis12                                                                                                                   | WR                           | DOI&CNAP:Washington, DC           | 0.487              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.487         |                                |
| Design and Analysis13                                                                                                                   | WR                           | COMPTEVFOR:Norfolk, VA            | 0.100              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.100         |                                |
| Design and Analysis14                                                                                                                   | C/CPFF                       | LOCKHEED MARTIN:Moorestown, NJ    | 2.000              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 2.000         |                                |
| Design and Analysis15                                                                                                                   | WR                           | CARDEROCK:Bethesda, MD            | 0.050              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.050         |                                |
| Design and Analysis16                                                                                                                   | WR                           | NWAS:Corona                       | 0.325              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.325         |                                |
| Design and Analysis17                                                                                                                   | C/CPFF                       | CORVID:Mooreville, NC             | 0.100              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 0.100         |                                |
| Design and Analysis18                                                                                                                   | C/CPFF                       | BAE:Rockville, MD                 | 0.101              | 0.000   |               | 0.040                                                                  | Nov 2012      | 0.030           | Nov 2013      | -                                             |               | 0.030            | 0.000               | 0.171         |                                |
| Design and Analysis19                                                                                                                   | MIPR                         | MDA:Dahlgren,VA                   | 1.257              | 0.000   |               | 0.000                                                                  |               | 0.000           |               | -                                             |               | 0.000            | 0.000               | 1.257         |                                |
| Design and Analysis20                                                                                                                   | WR                           | IWS3D:ARLINGTON, VA               | 1.000              | 0.000   |               | 0.500                                                                  | Nov 2012      | 0.000           |               | -                                             |               | 0.000            | 0.000               | 1.500         |                                |

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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: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 5: <i>System Development &amp; Demonstration (SDD)</i> |                                   |                                           |                        |                |                   | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> |                   |                     |                   |                    |                   | <b>PROJECT</b><br>0439: <i>Standard Missile Improvement</i> |                         |                   |                                 |
| <b>Product Development (\$ 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> |
| <b>Subtotal</b>                                                                                                                                                      |                                   |                                           | 1,043.817              | 16.281         |                   | 24.504                                                                            |                   | 26.651              |                   | 0.000              |                   | 26.651                                                      |                         |                   |                                 |
| <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 & EVALUATION1                                                                                                                                     | WR                                | NSWC:Port Hueneme                         | 0.185                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 0.185             |                                 |
| DEVELOPMENTAL TEST & EVALUATION2                                                                                                                                     | WR                                | WSMR:New Mexico                           | 1.600                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 1.600             |                                 |
| DEVELOPMENTAL TEST & EVALUATION3                                                                                                                                     | WR                                | NAWC:Pt Mugu                              | 0.098                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 0.098             |                                 |
| DEVELOPMENTAL TEST & EVALUATION4                                                                                                                                     | WR                                | PMRF:Hawaii                               | 0.338                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 0.338             |                                 |
| DEVELOPMENTAL TEST & EVALUATION5                                                                                                                                     | WR                                | NSWC:PHD/Techrep                          | 0.567                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 0.567             |                                 |
| <b>Subtotal</b>                                                                                                                                                      |                                   |                                           | 2.788                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | 0.000              |                   | 0.000                                                       | 0.000                   | 2.788             |                                 |
| <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                                                                                                                                       | C/CPAF                            | VARIOUS:VARIOUS                           | 1.993                  | 0.637          | Jun 2012          | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 2.630             |                                 |
| PROGRAM MANAGEMENT SUPPORT                                                                                                                                           | C/CPAF                            | VARIOUS:VARIOUS                           | 2.294                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                       | 0.000                   | 2.294             |                                 |
| TRAVEL                                                                                                                                                               | Allot                             | IWS3:Arlington, VA                        | 0.066                  | 0.000          |                   | 0.075                                                                             | Nov 2012          | 0.065               | Nov 2013          | -                  |                   | 0.065                                                       | 0.000                   | 0.206             |                                 |
| <b>Subtotal</b>                                                                                                                                                      |                                   |                                           | 4.353                  | 0.637          |                   | 0.075                                                                             |                   | 0.065               |                   | 0.000              |                   | 0.065                                                       | 0.000                   | 5.130             |                                 |

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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 5: System Development & Demonstration (SDD) |                 |         |  |         | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |              |  |             |  | PROJECT<br>0439: Standard Missile Improvement |                  |            |                          |
|                                                                                                                                         | All Prior Years | FY 2012 |  | FY 2013 |                                                                     | FY 2014 Base |  | FY 2014 OCO |  | FY 2014 Total                                 | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals                                                                                                                     | 1,050.958       | 16.918  |  | 24.579  |                                                                     | 26.716       |  | 0.000       |  | 26.716                                        |                  |            |                          |

Remarks

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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 5: System Development & Demonstration (SDD) |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |               |         |         | PROJECT<br>3092: Standard Missile 6 Program |                  |                  |            |
| 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 |
| 3092: Standard Missile 6 Program                                                                                                        | 971.954         | 38.628  | 39.312               | 48.876       | -                                                                   | 48.876        | 62.268  | 9.315   | 3.837                                       | 3.907            | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                              | 0               | 0       | 0                    | 0            |                                                                     | 0             | 0       | 0       | 0                                           | 0                |                  |            |

<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**

This program leverages existing missile technology and advanced missile technology. It aligns missile technology roadmaps across the Services (NAVSEA, NAVAIR, USAF, USMC and USA) and missile variants within the Services, taking advantage of the Navy's investment in the AWS, CEC, and airborne early warning systems. This missile will provide an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotary-wing aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight, thereby contributing to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets as discussed in the Joint TAMD MNS, DPG, QDR, TAMD Capstone Requirements Document, Forward From the Sea, Joint Vision 2010/2020, the 2002/2003 Naval Transformational Roadmap and the Operational Requirements Document for SM-6 BLK 1.

This project addresses the Navy's requirement for an extended range area air defense missile with engage-on-remote and over-the-horizon capability as the enabler for USN and Joint integrated fire control. The SM-6 BLK 1 is the Navy's transformational enabler for the Sea Shield Operational Concept and enables the opportunity for Sea Basing and Sea Strike. This effort includes risk reduction, SDD design, insensitive munitions improvement, transition to production and operational test of the latest STANDARD Missile with the kinematic performance to defeat current and projected threats that possess low altitude, high altitude, and high velocity and maneuver characteristics at the max kinematic range of the missile. SM-6 completed OT flight test phase of the SDD effort.

The Joint Integrated Fire Enhancement funding is JROC directed for the demonstration of the Joint Land Attack Elevated Netted Sensor (JLENS) into the Naval Integrated Fire Control-Counter Air (NIFC-CA) kill chain; specifically, SM-6 integration with the JLENS and the AWS. The funding identified in this budget is part of an integrated funding package that also includes funding for PEO IWS 1.0, PEO IWS 6.0, PEO IWS 7.0 NAVAIR (PMA-231) and the Army's Cruise Missile Defense Systems JLENS Product Office. Additional funding is to support the integration, test, and analysis of the NIFC-CA test and evaluation strategy. Funds are also included for the transition of technology associated with the Missile Defense/Sea Shield Naval Interceptor Improvements (NII) Future Naval Capability (FNC) as formally signed in the NII Technology Transition Agreement (TTA) by PEO IWS 3.0, OPNAV N96, and the Office of Naval Research (PMR-51).

FTR 54 Reliability Assessment Round will be fired at WSMR in the 3rd quarter of 2013. Subsequent reliability assessment events are planned for 2014 and 2015 based on range availability. This analysis will also determine if there are any required modifications to the Aegis Combat system baseline 9 for future capability support.

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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 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements | PROJECT<br>3092: Standard Missile 6 Program |             |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     | FY 2012                                     | FY 2013     | FY 2014    |
| <div>Title: Joint Integrated Fire Enhancement</div> <div>Articles:</div> <div>Description: Joint Integrated Fire Enhancement</div> <div>FY 2012 Accomplishments:</div> <div>Supported Pair-wise testing between SM-6 and JLENS; conducted Captive Flight Test (CFT) with JLENS in Integrated Fire Control (IFC) Kill Chain; supported SM-6: 6 degrees of freedom (DoF) accreditation; conducted pre-flight analysis for JLENS IFC Live Fire Event and post-flight analysis for JLENS IFC Live Fire Event.</div>                                                                                                                            |                                                                     | 2.862<br>0                                  | 0.000       | 0.000      |
| <div>Title: SM 6 Missile Development/Improvement</div> <div>Articles:</div> <div>FY 2012 Accomplishments:</div> <div>Continued (ACB 12) and (CSEDS) integration and test; Continued Captive Carry Flight Test; Integrated Fire Control (IFC) integration and test; Completed analysis of OT-IIB.</div> <div>FY 2013 Plans:</div> <div>Support follow on test and evaluation (FOT&amp;E); ACB 12 B/L 9 integration and flight test; and Processor Replacement Program (PRP) flight test and analysis.</div>                                                                                                                                 |                                                                     | 16.396<br>0                                 | 9.620<br>0  | 0.000      |
| <div>Title: SM6/AWS &amp; VLS Integration</div> <div>Articles:</div> <div>FY 2012 Accomplishments:</div> <div>AEGIS Weapons System and MK 41 Vertical Launch Integration of SM-6 IFC mode to ACB12.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | 1.624<br>0                                  | 0.000       | 0.000      |
| <div>Title: Insensitive Munitions (IM)</div> <div>Articles:</div> <div>FY 2013 Plans:</div> <div>Electronic Arm &amp; Fire Device (EAFD) &amp; Active Mitigation (AM) technology transition &amp; integration into DPRM; develop 30 rocket motors (RM) of dual pulse configuration; prime contractor &amp; subs integration &amp; procurement support; develop &amp; maintain systems safety program plan per WSESRB recommendation; and develop RM qualification test plan(s) and procedures.</div> <div>FY 2014 Plans:</div> <div>Safety Plans; POA&amp;M Development; IM STRAT Plan Development; Threat Hazard Assessment Update.</div> |                                                                     | 0.000                                       | 15.300<br>0 | 4.114<br>0 |
| <div>Title: SM6 OT&amp;E Support</div> <div>Articles:</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                     | 7.746<br>0                                  | 0.000       | 0.000      |

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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 5: System Development & Demonstration (SDD)                                                                                                                                                                                                    |  | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements | PROJECT<br>3092: Standard Missile 6 Program |            |             |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                           |  |                                                                     | FY 2012                                     | FY 2013    | FY 2014     |
| FY 2012 Accomplishments:<br>Completed activities related to SM-6 IOT&E (OT-IIB) testing and analysis. These activities include completing an interim OT report. They also include quartz lamp testing and wind tunnel testing.                                                                                                             |  |                                                                     |                                             |            |             |
| Title: Portable All-Up Round Bit Tester (PABTs)<br><br>Articles:                                                                                                                                                                                                                                                                           |  |                                                                     | 0.000                                       | 7.000<br>0 | 5.000<br>0  |
| FY 2013 Plans:<br>Integrated Baseline Review (IBR); System Requirements review (SRR)/System Functional Review (SFR) and detailed design.                                                                                                                                                                                                   |  |                                                                     |                                             |            |             |
| FY 2014 Plans:<br>Continue detailed design and development; Preliminary Design Review/Critical Design Review (PDR/CDR) and interface development.                                                                                                                                                                                          |  |                                                                     |                                             |            |             |
| Title: Naval Integrated Fire Control - Counter Air (NIFC-CA)<br><br>Articles:                                                                                                                                                                                                                                                              |  |                                                                     | 0.000                                       | 7.392<br>0 | 5.762<br>0  |
| FY 2013 Plans:<br>Integration of SM-6 6-DOF (Degrees of freedom) with NIFC-CA federation, to include airborne sensor and execution of end-to-end simulation performance predictions; Execution of one land-based (WSMR) NIFC-CA live fire test and one at-sea Point Mugu Test Center (PMTTC) live fire test; Completion of NIFC-CA CONOPS. |  |                                                                     |                                             |            |             |
| FY 2014 Plans:<br>Execution of Live-Fire NIFC-CA tests at WSMR; Execution of three at-sea live fire NIFC-CA tests at PMTC; Capabilities and limitations and analysis based on federated 6-DOF and live fire test events.                                                                                                                   |  |                                                                     |                                             |            |             |
| Title: Future Capability Demonstration<br><br>Articles:                                                                                                                                                                                                                                                                                    |  |                                                                     | 0.000                                       | 0.000      | 34.000<br>0 |
| FY 2014 Plans:<br>Execute demonstration events to include supporting data collections and performance analysis tasks.                                                                                                                                                                                                                      |  |                                                                     |                                             |            |             |
| Title: FY 12 OMNIBUS (SM-6 Supplemental Testing)<br><br>Articles:                                                                                                                                                                                                                                                                          |  |                                                                     | 10.000<br>0                                 | 0.000      | 0.000       |
| FY 2012 Accomplishments:<br>FY 12 Accomplishments<br>- Wind Tunnel testing<br>- Planning for flight test                                                                                                                                                                                                                                   |  |                                                                     |                                             |            |             |

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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 5: <i>System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                   |                |                |                         | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> |                          |                |                | <b>PROJECT</b><br>3092: <i>Standard Missile 6 Program</i> |                |                             |                   |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>                                                                                                                                                                                                                                                                                                                                |                |                |                         |                                                                                   |                          |                |                |                                                           |                | <b>FY 2012</b>              | <b>FY 2013</b>    | <b>FY 2014</b> |
| - FTR Events<br><br>Test Planned<br>- Completed wind tunnel test reporting<br>- Executed FTR 27 and 27A<br>- Completing analysis and reporting of supplemental flight test events<br>- Complete Ballistic Barrier Program                                                                                                                                                                                              |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                      |                |                |                         |                                                                                   |                          |                |                |                                                           |                | 38.628                      | 39.312            | 48.876         |
| <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> |                |
| • WPN 2234: <i>Standard Missile</i>                                                                                                                                                                                                                                                                                                                                                                                    | 356.878        | 399.482        | 367.985                 |                                                                                   | 367.985                  | 546.972        | 564.003        | 708.436                                                   | 810.665        | 4,288.021                   | 8,488.409         |                |
| • Standard Missile: QTY                                                                                                                                                                                                                                                                                                                                                                                                | 89.000         | 94.000         | 81.000                  |                                                                                   | 81.000                   | 125.000        | 127.000        | 160.000                                                   | 174.000        | 861.000                     | 1,800.000         |                |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |
| SM-6 Acquisition Strategy signed by OSD AT&L 14 March 2012.                                                                                                                                                                                                                                                                                                                                                            |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |
| <b>E. Performance Metrics</b>                                                                                                                                                                                                                                                                                                                                                                                          |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |
| Accomplishments<br>- DT Flight Tests at PMRF - Jan 11<br>- OT TRR - May 11<br>- OT Flight Tests at PMRF - Jul 11<br>- LRIP III Option II Contract Award - Jul 11<br>- LRIP IV UCA Contract Award - May 12<br>- SM-6 SD&D Contract SPI is currently at 1.00 and CPI is at 1.00<br><br>Upcoming Milestones<br>- OT IIIA - Apr 12 - Dec 13<br>- Integrated Fire Control (IFC) Apr 12 - Sep 14<br>- PRP Flight Test May 13 |                |                |                         |                                                                                   |                          |                |                |                                                           |                |                             |                   |                |

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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 5: System Development & Demonstration (SDD) |                        |                                |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |            |              |            | PROJECT<br>3092: Standard Missile 6 Program |            |                  |                  |            |                          |
| 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 |
| Design & Analysis                                                                                                                       | C/CPIF                 | RAYTHEON:Tucson, AZ            | 648.230         | 17.460  | Feb 2012   | 25.509                                                              | Nov 2012   | 11.818       | Nov 2013   | -                                           |            | 11.818           | Continuing       | Continuing | Continuing               |
| Design & Analysis                                                                                                                       | C/CPFF                 | JHU/APL:Laurel MD              | 42.108          | 3.310   | May 2012   | 2.411                                                               | Nov 2012   | 3.049        | Nov 2013   | -                                           |            | 3.049            | 0.000            | 50.878     |                          |
| Design & Analysis                                                                                                                       | MIPR                   | MIT/Lin Lab:Lexington, MA      | 0.550           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.550      |                          |
| Design & Analysis                                                                                                                       | WR                     | NAWC:China Lake                | 3.285           | 1.149   | Mar 2012   | 0.543                                                               | Nov 2012   | 0.050        | Nov 2013   | -                                           |            | 0.050            | 0.000            | 5.027      |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:Dahlgren                  | 9.845           | 1.059   | Apr 2012   | 0.400                                                               | Nov 2012   | 0.175        | Nov 2013   | -                                           |            | 0.175            | 0.000            | 11.479     |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:Indian Head               | 3.291           | 0.021   | Nov 2012   | 0.300                                                               | Nov 2012   | 0.300        | Nov 2013   | -                                           |            | 0.300            | 0.000            | 3.912      |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:PHD                       | 9.012           | 0.000   |            | 0.050                                                               | Nov 2012   | 0.050        | Nov 2013   | -                                           |            | 0.050            | 0.000            | 9.112      |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:Crane                     | 1.191           | 0.065   | Mar 2012   | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 1.256      |                          |
| Design & Analysis                                                                                                                       | MIPR                   | JSPO:Eglin AFB                 | 23.722          | 0.327   | May 2012   | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 24.049     |                          |
| Design & Analysis                                                                                                                       | C/CPFF                 | LOCKHEED Martin:Moorestown, NJ | 5.794           | 0.280   | Nov 2012   | 0.000                                                               |            | 7.000        | Nov 2013   | -                                           |            | 7.000            | 0.000            | 13.074     |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:Corona                    | 16.559          | 0.000   |            | 0.200                                                               | Nov 2012   | 0.100        | Nov 2013   | -                                           |            | 0.100            | 0.000            | 16.859     |                          |
| Design & Analysis                                                                                                                       | Reqn                   | ONR:Arlington, VA              | 5.150           | 0.170   | Nov 2012   | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 5.320      |                          |
| Design & Analysis                                                                                                                       | Reqn                   | NRL:Washington, DC             | 0.090           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.090      |                          |
| Design & Analysis                                                                                                                       | WR                     | COMPTEVFOR:Norfolk, VA         | 2.155           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 2.155      |                          |
| Design & Analysis                                                                                                                       | WR                     | CARDEROCK:Philadelphia, PA     | 2.549           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 2.549      |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:Pt Mugu                   | 0.613           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.613      |                          |
| Design & Analysis                                                                                                                       | C/CPFF                 | BAE:Rockville, MD              | 6.446           | 0.000   |            | 0.080                                                               | Nov 2012   | 0.000        |            | -                                           |            | 0.000            | 0.000            | 6.526      |                          |
| Design & Analysis                                                                                                                       | MIPR                   | ARMY:Redstone                  | 0.050           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.050      |                          |
| Design & Analysis                                                                                                                       | WR                     | NAWCAD:Pax River, MD           | 0.392           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.392      |                          |
| Design & Analysis                                                                                                                       | C/CPFF                 | CORVID:Mooresville, NC         | 2.750           | 0.150   | Mar 2012   | 0.500                                                               | Nov 2012   | 0.000        |            | -                                           |            | 0.000            | 0.000            | 3.400      |                          |
| Design & Analysis                                                                                                                       | C/CPFF                 | RNB:Arlington, VA              | 0.010           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.010      |                          |

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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 5: System Development & Demonstration (SDD) |                        |                                   |                 |         |            | R-1 ITEM NOMENCLATURE<br>PE 0604366N: Standard Missile Improvements |            |              |            | PROJECT<br>3092: Standard Missile 6 Program |            |                  |                  |            |                          |
| 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 |
| Design & Analysis                                                                                                                       | WR                     | SPAWAR:Arlington, VA              | 0.007           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.007      |                          |
| Design & Analysis                                                                                                                       | WR                     | ARMY:Cecom                        | 0.066           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 0.066      |                          |
| Design & Analysis                                                                                                                       | C/FP                   | GENERAL DYNAMICS:Falls Church, VA | 1.660           | 0.000   |            | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 1.660      |                          |
| Design & Analysis                                                                                                                       | WR                     | VARIOUS:(IWS 1A)                  | 59.773          | 0.000   |            | 0.000                                                               |            | 11.000       | Nov 2013   | -                                           |            | 11.000           | 0.000            | 70.773     |                          |
| Design & Analysis                                                                                                                       | WR                     | VARIOUS:(VLS)                     | 24.772          | 0.000   |            | 0.040                                                               | Nov 2012   | 0.050        | Nov 2013   | -                                           |            | 0.050            | 0.000            | 24.862     |                          |
| Design & Analysis                                                                                                                       | WR                     | NSWC:WSMR                         | 0.000           | 0.000   |            | 0.100                                                               | Nov 2012   | 0.100        | Nov 2013   | -                                           |            | 0.100            | 0.000            | 0.200      |                          |
| Subtotal                                                                                                                                |                        |                                   | 870.070         | 23.991  |            | 30.133                                                              |            | 33.692       |            | 0.000                                       |            | 33.692           |                  |            |                          |
| 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 |
| Developmental Test & Evaluation                                                                                                         | WR                     | NSWC:Port Hueneme                 | 0.400           | 0.790   | May 2012   | 0.200                                                               | Nov 2012   | 0.700        | Nov 2013   | -                                           |            | 0.700            | 0.000            | 2.090      |                          |
| Developmental Test & Evaluation                                                                                                         | WR                     | NSWC:WSMR                         | 19.321          | 4.180   | May 2012   | 1.848                                                               | Nov 2012   | 1.900        | Nov 2013   | -                                           |            | 1.900            | 0.000            | 27.249     |                          |
| Developmental Test & Evaluation                                                                                                         | WR                     | PMRF:Hawaii                       | 38.089          | 0.112   | Jun 2012   | 0.000                                                               |            | 0.000        |            | -                                           |            | 0.000            | 0.000            | 38.201     |                          |
| Developmental Test & Evaluation                                                                                                         | WR                     | NAWC:Pt Mugu                      | 0.769           | 0.000   |            | 0.000                                                               |            | 2.000        | Nov 2013   | -                                           |            | 2.000            | 0.000            | 2.769      |                          |
| Developmental Test & Evaluation                                                                                                         | C/CPAF                 | RAYTHEON:Tucson, AZ               | 14.242          | 1.024   | Feb 2012   | 1.841                                                               | Nov 2012   | 1.854        | Nov 2013   | -                                           |            | 1.854            | 0.000            | 18.961     |                          |
| Developmental Test & Evaluation                                                                                                         | C/CPFF                 | JHU/APL:Laurel, MD                | 1.250           | 2.498   | Mar 2012   | 2.455                                                               | Nov 2012   | 2.630        | Nov 2013   | -                                           |            | 2.630            | 0.000            | 8.833      |                          |
| Developmental Test & Evaluation                                                                                                         | WR                     | NSWC:Corona                       | 1.750           | 2.148   | Mar 2012   | 0.800                                                               | Nov 2012   | 1.620        | Nov 2013   | -                                           |            | 1.620            | 0.000            | 6.318      |                          |
| Developmental Test & Evaluation                                                                                                         | WR                     | NSWC:Dahlgren                     | 0.500           | 0.363   | May 2012   | 0.100                                                               | Nov 2012   | 0.550        | Nov 2013   | -                                           |            | 0.550            | 0.000            | 1.513      |                          |

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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: <i>Research, Development, Test &amp; Evaluation, Navy</i><br>BA 5: <i>System Development &amp; Demonstration (SDD)</i> |                                   |                                           |                        |                |                   | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> |                   |                     |                   |                    |                   | <b>PROJECT</b><br>3092: <i>Standard Missile 6 Program</i> |                         |                   |                                 |
| <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                                | VLS:Arlington, VA                         | 0.750                  | 0.805          | Jun 2012          | 0.385                                                                             | Nov 2012          | 0.150               | Nov 2013          | -                  |                   | 0.150                                                     | 0.000                   | 2.090             |                                 |
| Developmental Test & Evaluation                                                                                                                                      | WR                                | COMPTEVFOR:Norfolk, Va                    | 0.250                  | 0.672          | May 2012          | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                     | 0.000                   | 0.922             |                                 |
| Developmental Test & Evaluation                                                                                                                                      | WR                                | VARIOUS:(IWS 1A)                          | 0.000                  | 0.902          | May 2012          | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                     | 0.000                   | 0.902             |                                 |
| Developmental Test & Evaluation                                                                                                                                      | WR                                | NSWC:Carderock                            | 0.000                  | 0.000          |                   | 0.000                                                                             |                   | 2.000               | Nov 2013          | -                  |                   | 2.000                                                     | 0.000                   | 2.000             |                                 |
| <b>Subtotal</b>                                                                                                                                                      |                                   |                                           | 77.321                 | 13.494         |                   | 7.629                                                                             |                   | 13.404              |                   | 0.000              |                   | 13.404                                                    | 0.000                   | 111.848           |                                 |
| <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 Services                                                                                                                                      | C/CPAF                            | VARIOUS:Various                           | 22.405                 | 1.083          | Feb 2012          | 1.500                                                                             | Nov 2012          | 1.730               | Nov 2013          | -                  |                   | 1.730                                                     | 0.000                   | 26.718            |                                 |
| Travel                                                                                                                                                               | Various                           | IWS3:Arlington, VA                        | 1.028                  | 0.060          | Dec 2011          | 0.050                                                                             | Nov 2012          | 0.050               | Nov 2013          | -                  |                   | 0.050                                                     | 0.000                   | 1.188             |                                 |
| DAWDF                                                                                                                                                                | C/FP                              | Not Specified:Not Specified               | 1.130                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | -                  |                   | 0.000                                                     | 0.000                   | 1.130             |                                 |
| <b>Subtotal</b>                                                                                                                                                      |                                   |                                           | 24.563                 | 1.143          |                   | 1.550                                                                             |                   | 1.780               |                   | 0.000              |                   | 1.780                                                     | 0.000                   | 29.036            |                                 |
|                                                                                                                                                                      |                                   |                                           | <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>                                                                                                                                           |                                   |                                           | 971.954                | 38.628         |                   | 39.312                                                                            |                   | 48.876              |                   | 0.000              |                   | 48.876                                                    |                         |                   |                                 |
| <b>Remarks</b>                                                                                                                                                       |                                   |                                           |                        |                |                   |                                                                                   |                   |                     |                   |                    |                   |                                                           |                         |                   |                                 |

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

## APPROPRIATION/BUDGET ACTIVITY

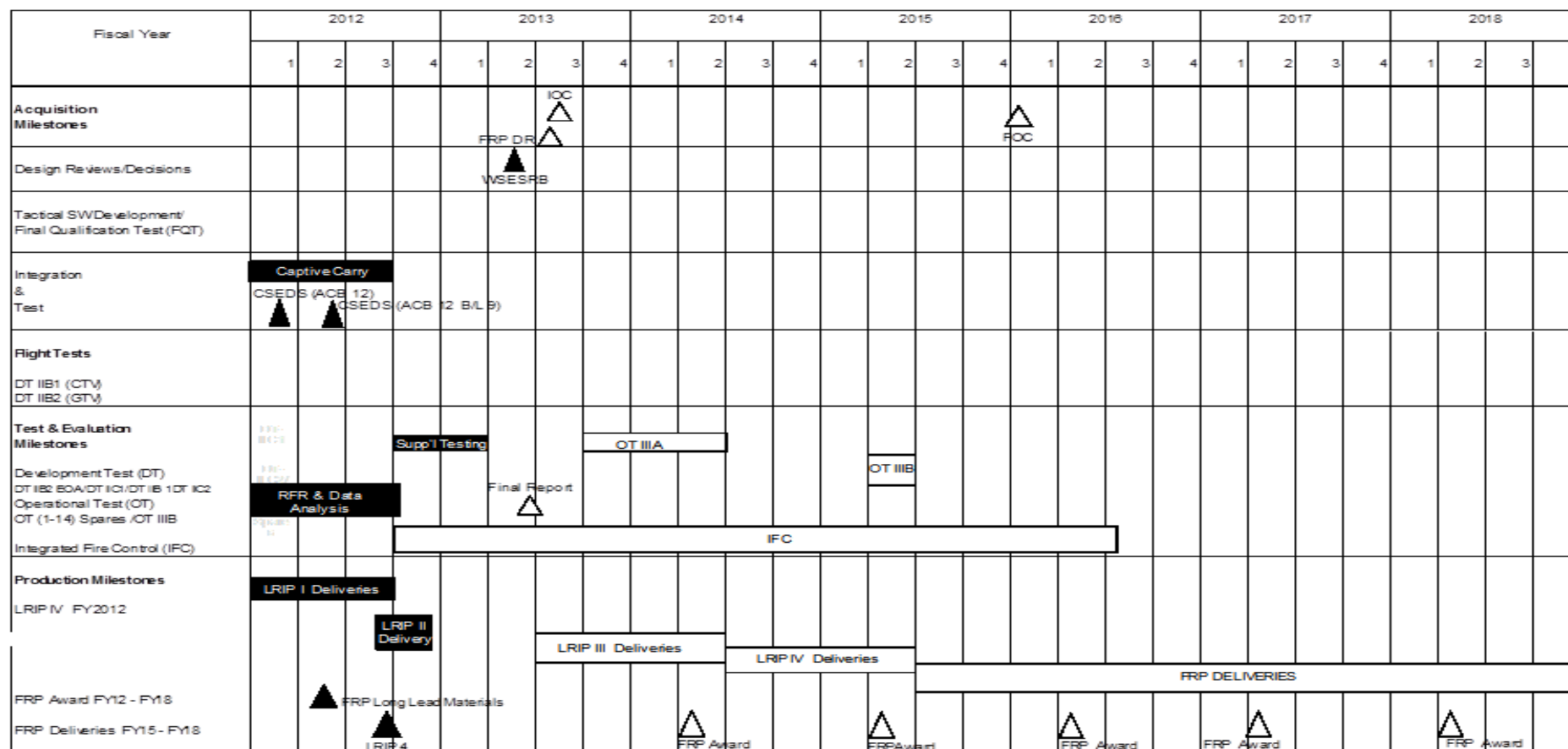
1319: Research, Development, Test & Evaluation, Navy  
BA 5: System Development & Demonstration (SDD)

## R-1 ITEM NOMENCLATURE

PE 0604366N: Standard Missile  
Improvements

## PROJECT

3092: Standard Missile 6 Program



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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 5: <i>System Development &amp; Demonstration (SDD)</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604366N: <i>Standard Missile Improvements</i> | <b>PROJECT</b><br>3092: <i>Standard Missile 6 Program</i> |                         |

Schedule Details

| Events by Sub Project                           | Start   |      | End     |      |
|-------------------------------------------------|---------|------|---------|------|
|                                                 | Quarter | Year | Quarter | Year |
| <b>Proj 3092</b>                                |         |      |         |      |
| IOC                                             | 2       | 2013 | 3       | 2013 |
| Full-Rate Production (FRP) Decision             | 3       | 2013 | 3       | 2013 |
| Full Operational Capability (FOC)               | 4       | 2015 | 1       | 2016 |
| WSESRB                                          | 1       | 2013 | 2       | 2013 |
| Captive Carry                                   | 1       | 2012 | 3       | 2012 |
| CSEDS (ACB 12) (ACB 12 B/L 9)                   | 1       | 2012 | 2       | 2012 |
| Supplemental Testing                            | 3       | 2012 | 1       | 2013 |
| OT IIIA                                         | 4       | 2013 | 2       | 2014 |
| OT IIIB                                         | 2       | 2015 | 2       | 2015 |
| Runs for the Record (RFR) & Data Analysis       | 1       | 2012 | 4       | 2012 |
| Runs for Record Final Report                    | 1       | 2013 | 1       | 2013 |
| Integrated Fire Control (IFC)                   | 3       | 2012 | 3       | 2016 |
| Low-Rate Initial Production I Deliveries        | 1       | 2012 | 3       | 2012 |
| Low-Rate Initial Production II Deliveries       | 3       | 2012 | 4       | 2012 |
| Low-Rate Initial Production III Deliveries      | 3       | 2013 | 2       | 2014 |
| Low-Rate Initial Production IV Deliveries       | 3       | 2014 | 2       | 2015 |
| Full Rate Production (FRP) Deliveries           | 3       | 2015 | 4       | 2018 |
| Full Rate Production (FRP) I Long Lead Material | 2       | 2012 | 2       | 2012 |
| LRIP IV Award                                   | 3       | 2012 | 3       | 2012 |
| Full Rate Production (FRP) Award                | 2       | 2014 | 2       | 2018 |