

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |         |              |                                                                                  |               |         |         |         |                  |                  |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|----------------------------------------------------------------------------------|---------------|---------|---------|---------|------------------|------------------|------------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |         |              |                                                                                  |               |         |         |         | Date: March 2014 |                  |            |
| Appropriation/Budget Activity<br>1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |               |         |         |         |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO #                                                                    | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019          | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2,078.458   | 46.965  | 67.082  | 53.198       | -                                                                                | 53.198        | 67.682  | 58.710  | 41.904  | 14.268           | Continuing       | Continuing |
| 0439: Standard Missile Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,067.876   | 23.725  | 26.716  | 11.814       | -                                                                                | 11.814        | 19.781  | 11.855  | 12.127  | 12.444           | Continuing       | Continuing |
| 3092: Standard Missile 6 Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,010.582   | 23.240  | 40.366  | 41.384       | -                                                                                | 41.384        | 47.901  | 46.855  | 29.777  | 1.824            | Continuing       | Continuing |
| MDAP/MAIS Code:<br>Other MDAP/MAIS Code(s): 197, 391                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |              |                                                                                  |               |         |         |         |                  |                  |            |
| # The FY 2015 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.                                                                                                                                                                         |             |         |         |              |                                                                                  |               |         |         |         |                  |                  |            |
| 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 Air and Missile Defense S-band Radar (AMDR-S) radar for DDG 51 Flight III ships will include requirements review/updates and analysis, verification, technical documentation, design review, working group SME support, missile/radar integration, missile test hardware procurement, risk assessment, safety, test and evaluation planning, analysis, data collection. Missile variants: ESSM Block I; SM-2 Blk IIIB MU2, SM-6 Block I (Current Aegis Configuration).                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |         |              |                                                                                  |               |         |         |         |                  |                  |            |
| 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. 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, Integrated Air and Missile Defense (IAMD) Roadmap, IAMD Joint Integrating Concept, IAMD Joint Operating Concept and TAMD Capstone Requirements Document. SM-6 FOT&E Testing with AEGIS Baseline 9 commences in the second quarter of FY14 and scheduled events align with the overall AEGIS Baseline 9 Path to Operational Testing (OT). |             |         |         |              |                                                                                  |               |         |         |         |                  |                  |            |

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Navy **Date:** March 2014

|                                                                                                                                                              |                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Appropriation/Budget Activity</b><br>1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0604366N / <i>Standard Missile Improvements</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

SM-6 portion of Joint and Naval Integrated Fire Control is to support the integration, land-based and at-sea test, and analysis in support of the Naval Integrated Fire Control-Counter Air (NIFC-CA) test and evaluation strategy. The first at-sea NIFC-CA System of Systems (SoS) live fire at-sea test with AEGIS Baseline 9 commenced in the 4th Quarter of FY13 with subsequent Land-Based and At-Sea tests taking place in FY14.

Insensitive Munitions (IM) efforts support transition of technology associated with ONR HARDKILL future naval capabilities reflected in a signed, level B, Technology Transition Agreement (TTA), endorsed by PEO IWS 3.0, OPNAV N96C, Office of Naval Research (ONR) and Missile Defense Agency (MDA AX).

Portable All-Up Round Bit Tester (PABTs) eliminates the need for missiles to be removed from the ship and transported to the Intermediate Level Maintenance Facility (ILMF) to undergo testing, reprogramming, and maintenance checks. PABTs development and subsequent delivery in FY16 will increase missile/asset availability to the fleet and result in significant maintenance savings over the SM-6 lifecycle.

Future capability demonstration project funded by the OSD Deputy's Management Action Group (DMAG), with DEPSECDEF approval, for the execution of test vehicle tests at White Sands Missile Range to support an at sea demonstration event in FY16. The at sea demonstration event supports data collections, performance analysis tasks, reliability assessment, Preliminary Design Review (PDR) for AEGIS Baseline Changes (ACB), and Combat Systems Integration Test (CSIT). The preliminary integration testing of the entire architecture interfaces missile, data network, AEGIS, and airborne sensors to support the fielding of an operational capability in the FY18 timeframe.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015 Base</b> | <b>FY 2015 OCO</b> | <b>FY 2015 Total</b> |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 63.891         | 75.592         | 80.042              | -                  | 80.042               |
| Current President's Budget                        | 46.965         | 67.082         | 53.198              | -                  | 53.198               |
| Total Adjustments                                 | -16.926        | -8.510         | -26.844             | -                  | -26.844              |
| • Congressional General Reductions                | -              | -0.010         |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -8.500         |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | 4.058          | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -1.362         | -              |                     |                    |                      |
| • Program Adjustments                             | -              | -              | -24.400             | -                  | -24.400              |
| • Rate/Misc Adjustments                           | -0.001         | -              | -2.444              | -                  | -2.444               |
| • Congressional General Reductions                | -4.121         | -              | -                   | -                  | -                    |
| Adjustments                                       |                |                |                     |                    |                      |
| • Congressional Directed Reductions               | -15.500        | -              | -                   | -                  | -                    |
| Adjustments                                       |                |                |                     |                    |                      |

UNCLASSIFIED

|                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                     |                                                                                  | Date: March 2014 |
| Appropriation/Budget Activity<br>1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                         | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |                  |
| <p><b><u>Change Summary Explanation</u></b></p> <p>Congressional reduction in FY 14 for future capabilities demonstration. Future capabilities demonstration funding was increased in FY 15 to support the fielding of an operational capability in the FY18 timeframe. IM funding was reduced in FY15 to align program with the revised TTA with the ONR.</p> |                                                                                  |                  |

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                                  |               |         |         |                                                              |                  |                  |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|----------------------------------------------------------------------------------|---------------|---------|---------|--------------------------------------------------------------|------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |         |              |                                                                                  |               |         |         |                                                              | Date: March 2014 |                  |            |
| Appropriation/Budget Activity<br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |               |         |         | Project (Number/Name)<br>0439 / Standard Missile Improvement |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO #                                                                    | FY 2015 Total | FY 2016 | FY 2017 | FY 2018                                                      | FY 2019          | Cost To Complete | Total Cost |
| 0439: Standard Missile Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,067.876   | 23.725  | 26.716  | 11.814       | -                                                                                | 11.814        | 19.781  | 11.855  | 12.127                                                       | 12.444           | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000       | -       | -       | -            | -                                                                                | -             | -       | -       | -                                                            | -                |                  |            |
| MDAP/MAIS Code: 197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |         |              |                                                                                  |               |         |         |                                                              |                  |                  |            |
| # The FY 2015 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 JUWL will be integrated with the 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 2013                                                      | FY 2014          | FY 2015          |            |
| Title: DDG-1000 Pre Plan Product Improvement (P3I) Link Integration/ICWI<br><br>Articles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |              |                                                                                  |               |         |         | 19.891                                                       | 12.706           | 8.825            |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                                  |               |         |         | -                                                            | -                | -                |            |
| FY 2013 Accomplishments:<br>Conducted ESSM PRM qualification testing and EMI/E3 testing; Conducted SM-2 POD Plate 3 DVT; Completed SM-2 JUWL Preliminary Design Review in July 2013; Procured and assemble SM-2 Production Representative Model (PRM) modules and conduct associated qualification testing.                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |         |              |                                                                                  |               |         |         |                                                              |                  |                  |            |
| FY 2014 Plans:<br>Complete ESSM E3 testing. Deliver ESSM inert operational missile (IOM) to DDG 1000 for ship interface checkout and integration testing; Conduct SM-2 Plate 3 qualification testing; Conduct SM-2 JUWL Critical Design Review in 3rd quarter 2014; Assemble/integrate SM-2 modules and software into a functional missile guidance section.                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |              |                                                                                  |               |         |         |                                                              |                  |                  |            |
| FY 2015 Plans:<br>Conduct SM guidance and round level qualification testing and EMI/E3 testing. Deliver PRM IOM to DDG 1000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |              |                                                                                  |               |         |         |                                                              |                  |                  |            |
| Title: DDG 1000 Rephase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |         |         |              |                                                                                  |               |         |         | 2.799                                                        | -                | -                |            |

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------------------------------------------------------------------------------|----------------|------------------|--------------------------------------------------------------|------------------|---------|---------|---------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |         |                                                                                  |                |                  |                                                              | Date: March 2014 |         |         |                     |            |
| Appropriation/Budget Activity<br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |                |                  | Project (Number/Name)<br>0439 / Standard Missile Improvement |                  |         |         |                     |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |                                                                                  |                |                  |                                                              | FY 2013          | FY 2014 | FY 2015 |                     |            |
| Articles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                                                                                  |                |                  |                                                              | -                | -       | -       |                     |            |
| FY 2013 Accomplishments:<br>Procured test round modification kits to upgrade Block IIAs to Zumwalt IIAs, test, and deliver Zumwalt IIA rounds (including canisters) for developmental testing (DT).                                                                                                                                                                                                                                                                                                       |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| FY 2014 Plans:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| FY 2015 Plans:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| Title: Air and Missile Defense Radar (AMDR) Integration                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |         |                                                                                  |                |                  |                                                              | 1.035            | 14.010  | 2.989   |                     |            |
| Articles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                                                                                  |                |                  |                                                              | -                | -       | -       |                     |            |
| FY 2013 Accomplishments:<br>AMDR Specifications requirements review; conducted analysis required for requirements margin within current missile ICDs; Supported AMDR prime design review technical interchange meetings; engineering studies as required.                                                                                                                                                                                                                                                 |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| FY 2014 Plans:<br>Hardware (IOM/Spare parts) procurement - (QTY of 2 SM-2 IOMs and QTY of 2 SM-6 IOMs); 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.                                                                                                                                   |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| FY 2015 Plans:<br>Complete ESSM missile test hardware procurement; developing and updating missile interface documentation to support the detailed requirements development for ACB Next and integration with AMDR; updating missile models with AMDR and CS elements as available; generating missile fly out data; configuring missile communication test set for radar risk reduction testing; design and program review support with radar and CS prime contractors; engineering studies as required. |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                                                                                  |                |                  |                                                              | 23.725           | 26.716  | 11.814  |                     |            |
| C. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FY 2013 | FY 2014 | FY 2015<br>Base                                                                  | FY 2015<br>OCO | FY 2015<br>Total | FY 2016                                                      | FY 2017          | FY 2018 | FY 2019 | Cost To<br>Complete | Total Cost |
| • WPN 2356: Standard Missile                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -       | -       | -                                                                                | -              | -                | 16.600                                                       | -                | -       | -       | -                   | 16.600     |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |         |                                                                                  |                |                  |                                                              |                  |         |         |                     |            |

# UNCLASSIFIED

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | <b>Date:</b> March 2014                                                    |
| <b>Appropriation/Budget Activity</b><br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>R-1 Program Element (Number/Name)</b><br>PE 0604366N / <i>Standard Missile Improvements</i> | <b>Project (Number/Name)</b><br>0439 / <i>Standard Missile Improvement</i> |
| <p><b><u>D. Acquisition Strategy</u></b></p> <p>Production representative missiles will be built for ESSM between FY12 and 14 and for SM-2 FY13 and FY17.</p> <p>Engineering and integration testing for ESSM in FY14- FY15 and SM-2 in FY14- FY15. 67 ESSM missiles and 34 SM missiles are required to support Developmental Test &amp; Operational Test (DT &amp; OT) FY15-FY17 and continue follow-on ship integration and design update effort in FY18.</p> <p>This budget reflects the procurement of the initial SM Flight Test Rounds (FTRs) in FY13. Follow-on SM/ESSM FTRs, missile integration and test efforts and ship fill records are not funded within this budget. The 67 ESSM and 27 SM missiles are to be funded by PMS 500.</p> <p>SM Development, integration, and test is expected to conclude by FY18 for the X-band JUWL and ICWI.</p> <p><b><u>E. Performance Metrics</u></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 (FY12).</p> <p>ESSM conducted its Critical Design Review (CDR) in April 2012 (FY12).</p> <p>JUWL conducted its SM-2 PDR during fourth quarter FY13.</p> <p>SM-2 integration testing and datalink qualification for JUWL testing is planned for FY14.</p> |                                                                                                |                                                                            |

**UNCLASSIFIED**

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy |                        |                                  |             |         |            |                                                                                         |            |              |            |                                                                     |            | Date: March 2014 |                  |            |                          |
|--------------------------------------------------------|------------------------|----------------------------------|-------------|---------|------------|-----------------------------------------------------------------------------------------|------------|--------------|------------|---------------------------------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>1319 / 5              |                        |                                  |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604366N / <i>Standard Missile Improvements</i> |            |              |            | Project (Number/Name)<br>0439 / <i>Standard Missile Improvement</i> |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                   |                        |                                  |             | FY 2013 |            | FY 2014                                                                                 |            | FY 2015 Base |            | FY 2015 OCO                                                         |            | FY 2015 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location   | 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 and Analysis1                                   | SS/CPAF                | RAYTHEON : Tucson, AZ            | 234.986     | 20.120  | May 2013   | 23.818                                                                                  | Mar 2014   | 9.552        | Nov 2014   | -                                                                   |            | 9.552            | Continuing       | Continuing | Continuing               |
| Design and Analysis2                                   | C/CPFF                 | JHU/APL : Laurel, MD             | 4.701       | 1.605   | Nov 2012   | 1.500                                                                                   | Mar 2014   | 0.310        | Nov 2014   | -                                                                   |            | 0.310            | -                | 8.116      | -                        |
| Design and Analysis3                                   | MIPR                   | MIT/Lin Lab : Lexington, MA      | 0.050       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.050      | -                        |
| Design and Analysis4                                   | WR                     | NSWC : Dahlgren                  | 787.984     | 0.363   | Nov 2012   | 0.320                                                                                   | Mar 2014   | 0.601        | Nov 2014   | -                                                                   |            | 0.601            | -                | 789.268    | -                        |
| Design and Analysis5                                   | WR                     | NSWC : Indian Head               | 0.940       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.940      | -                        |
| Design and Analysis6                                   | WR                     | NAWC : China Lake                | 3.180       | 0.475   | Nov 2012   | 0.570                                                                                   | Mar 2014   | 0.474        | Nov 2014   | -                                                                   |            | 0.474            | -                | 4.699      | -                        |
| Design and Analysis7                                   | Various                | LOCKHEED MARTIN : Moorestown, NJ | 17.775      | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 17.775     | -                        |
| Design and Analysis8                                   | WR                     | CNO : Washington, DC             | 0.010       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.010      | -                        |
| Design and Analysis9                                   | WR                     | CMDP : Phoenix, AZ               | 4.795       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 4.795      | -                        |
| Design and Analysis11                                  | WR                     | NSWC : Crane                     | 0.257       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.257      | -                        |
| Design and Analysis12                                  | WR                     | DOI&CNAP : Washington, DC        | 0.487       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.487      | -                        |
| Design and Analysis13                                  | WR                     | COMPTEVFOR : Norfolk, VA         | 0.100       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.100      | -                        |
| Design and Analysis14                                  | C/CPFF                 | LOCKHEED MARTIN : Moorestown, NJ | 2.000       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 2.000      | -                        |
| Design and Analysis15                                  | WR                     | CARDEROCK : Bethesda, MD         | 0.050       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.050      | -                        |
| Design and Analysis16                                  | WR                     | NWAS : Corona                    | 0.325       | 0.060   | Jul 2013   | -                                                                                       |            | 0.351        | Nov 2014   | -                                                                   |            | 0.351            | -                | 0.736      | -                        |
| Design and Analysis17                                  | C/CPFF                 | CORVID : Mooresville, NC         | 0.100       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 0.100      | -                        |
| Design and Analysis18                                  | C/CPFF                 | BAE : Rockville, MD              | 0.101       | -       |            | 0.030                                                                                   | Mar 2014   | 0.041        | Nov 2014   | -                                                                   |            | 0.041            | -                | 0.172      | -                        |
| Design and Analysis19                                  | MIPR                   | MDA : Dahlgren,VA                | 1.257       | -       |            | -                                                                                       |            | -            |            | -                                                                   |            | -                | -                | 1.257      | -                        |
|                                                        |                        |                                  |             |         |            |                                                                                         |            |              |            |                                                                     |            |                  |                  |            |                          |

**UNCLASSIFIED**

|                                                        |                              |                                   |                |         |               |                                                                                     |               |                 |               |                                                              |               |                  |                     |               |                                |
|--------------------------------------------------------|------------------------------|-----------------------------------|----------------|---------|---------------|-------------------------------------------------------------------------------------|---------------|-----------------|---------------|--------------------------------------------------------------|---------------|------------------|---------------------|---------------|--------------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy |                              |                                   |                |         |               |                                                                                     |               |                 |               |                                                              |               | Date: March 2014 |                     |               |                                |
| Appropriation/Budget Activity<br>1319 / 5              |                              |                                   |                |         |               | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile<br>Improvements |               |                 |               | Project (Number/Name)<br>0439 / Standard Missile Improvement |               |                  |                     |               |                                |
| Product Development (\$ in Millions)                   |                              |                                   |                | FY 2013 |               | FY 2014                                                                             |               | FY 2015<br>Base |               | FY 2015<br>OCO                                               |               | FY 2015<br>Total |                     |               |                                |
| Cost Category Item                                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | 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 Analysis20                                  | WR                           | IWS3D :<br>ARLINGTON, VA          | 1.000          | 0.500   | Nov 2012      | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 1.500         | -                              |
| Subtotal                                               |                              |                                   | 1,060.098      | 23.123  |               | 26.238                                                                              |               | 11.329          |               | -                                                            |               | 11.329           | -                   | -             | -                              |
| Test and Evaluation (\$ in Millions)                   |                              |                                   |                | FY 2013 |               | FY 2014                                                                             |               | FY 2015<br>Base |               | FY 2015<br>OCO                                               |               | FY 2015<br>Total |                     |               |                                |
| Cost Category Item                                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | 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 |
| DEVELOPMENTAL TEST<br>& EVALUATION1                    | WR                           | NSWC : Port<br>Hueneme            | 0.185          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 0.185         | -                              |
| DEVELOPMENTAL TEST<br>& EVALUATION2                    | WR                           | WSMR : New Mexico                 | 1.600          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 1.600         | -                              |
| DEVELOPMENTAL TEST<br>& EVALUATION3                    | WR                           | NAWC : Pt Mugu                    | 0.098          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 0.098         | -                              |
| DEVELOPMENTAL TEST<br>& EVALUATION4                    | WR                           | PMRF : Hawaii                     | 0.338          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 0.338         | -                              |
| DEVELOPMENTAL TEST<br>& EVALUATION5                    | WR                           | NSWC : PHD/<br>Techrep            | 0.567          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 0.567         | -                              |
| Subtotal                                               |                              |                                   | 2.788          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 2.788         | -                              |
| Management Services (\$ in Millions)                   |                              |                                   |                | FY 2013 |               | FY 2014                                                                             |               | FY 2015<br>Base |               | FY 2015<br>OCO                                               |               | FY 2015<br>Total |                     |               |                                |
| Cost Category Item                                     | Contract<br>Method<br>& Type | Performing<br>Activity & Location | 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 |
| CONTRACTOR<br>ENGINEERING<br>SUPPORT                   | C/CPAF                       | VARIOUS :<br>VARIOUS              | 2.630          | -       |               | -                                                                                   |               | -               |               | -                                                            |               | -                | -                   | 2.630         | -                              |
| PROGRAM<br>MANAGEMENT<br>SUPPORT                       | C/CPAF                       | VARIOUS :<br>VARIOUS              | 2.294          | 0.537   | Nov 2012      | 0.415                                                                               | Mar 2014      | 0.423           | Nov 2014      | -                                                            |               | 0.423            | -                   | 3.669         | -                              |
| TRAVEL                                                 | Allot                        | IWS3 : Arlington, VA              | 0.066          | 0.065   | Nov 2012      | 0.063                                                                               | Mar 2014      | 0.062           | Nov 2014      | -                                                            |               | 0.062            | -                   | 0.256         | -                              |

**UNCLASSIFIED**

|                                                                   |  |  |  |  |  |                                                                                                |  |  |  |                                                                            |  |                         |  |  |
|-------------------------------------------------------------------|--|--|--|--|--|------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------|--|-------------------------|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2015 Navy |  |  |  |  |  |                                                                                                |  |  |  |                                                                            |  | <b>Date:</b> March 2014 |  |  |
| <b>Appropriation/Budget Activity</b><br>1319 / 5                  |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0604366N / <i>Standard Missile Improvements</i> |  |  |  | <b>Project (Number/Name)</b><br>0439 / <i>Standard Missile Improvement</i> |  |                         |  |  |

| Management Services (\$ in Millions) |                        |                                |             | FY 2013 |            | FY 2014 |            | FY 2015 Base |            | FY 2015 OCO |            | FY 2015 Total |                  |            |                          |
|--------------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                   | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| <b>Subtotal</b>                      |                        |                                | 4.990       | 0.602   |            | 0.478   |            | 0.485        |            | -           |            | 0.485         | -                | 6.555      | -                        |

|                            | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 1,067.876   | 23.725  | 26.716  | 11.814       | -           | 11.814        | -                | -          | -                        |

**Remarks**

# UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604366N / Standard Missile Improvements

Project (Number/Name)

0439 / Standard Missile Improvement

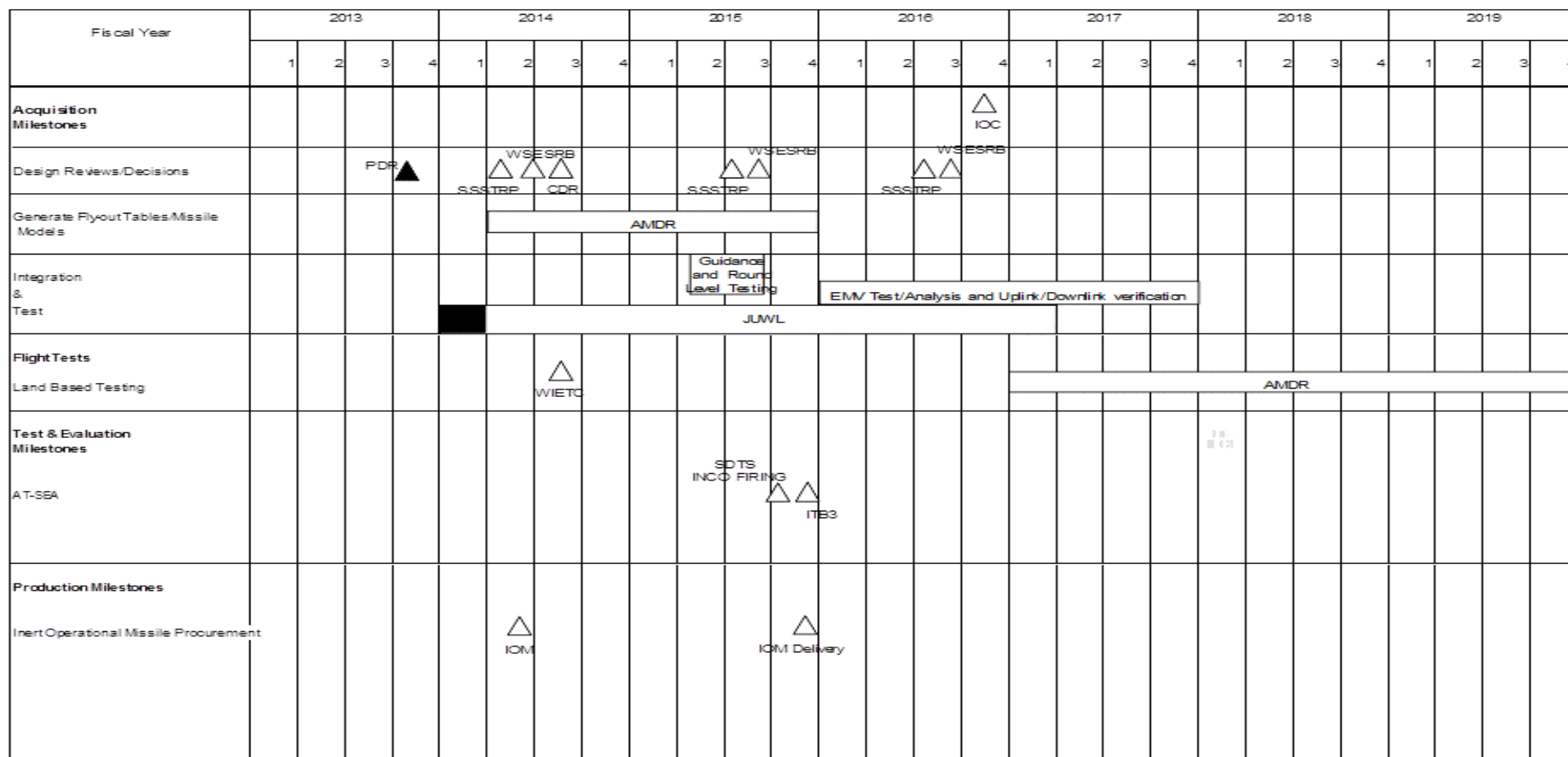


EXHIBIT R-4  
SCHEDULE PROFILE

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|----------------------------------------------------------------------------------|---------------|---------|---------|------------------------------------------------------------|------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |              |                                                                                  |               |         |         |                                                            | Date: March 2014 |                  |            |
| Appropriation/Budget Activity<br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |               |         |         | Project (Number/Name)<br>3092 / Standard Missile 6 Program |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO #                                                                    | FY 2015 Total | FY 2016 | FY 2017 | FY 2018                                                    | FY 2019          | Cost To Complete | Total Cost |
| 3092: Standard Missile 6 Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,010.582   | 23.240  | 40.366  | 41.384       | -                                                                                | 41.384        | 47.901  | 46.855  | 29.777                                                     | 1.824            | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000       | -       | -       | -            | -                                                                                | -             | -       | -       | -                                                          | -                |                  |            |
| MDAP/MAIS Code: 391                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |
| # The FY 2015 OCO Request will be submitted at a later date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |
| <p>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, the Operational Requirements Document for SM-6 BLK 1, and the SM-6 Capability Production Document.</p> <p>SM-6 portion of Joint and Naval Integrated Fire Control is to support the integration, land-based and at-sea test, and analysis in support of the NIFC-CA test and evaluation strategy. The JROC directed Joint Land Attack Elevated Netted Sensor (JLENS) integration into the NIFC-CA kill chain was successfully live fire tested as well as the first land-based NIFC-CA SoS live fire test. The first at-sea NIFC-CA SoS live fire at-sea test with AEGIS Baseline 9 commences in the 4th Quarter of FY13 with subsequent Land-Based and At-Sea tests taking place in FY14.</p> <p>IM efforts support transition of technology associated with ONR HARDKILL Future Naval Capabilities reflected in a signed, level B, TTA, endorsed by PEO IWS 3.0, OPNAV N96C, ONR and MDA AX.</p> <p>PABTs eliminates the need for missiles to be removed from the ship and transported to the ILMF to undergo testing, reprogramming, and maintenance checks. PABTs development and subsequent delivery in FY16 will increase missile/asset availability to the fleet and result in significant maintenance savings over the SM-6 lifecycle.</p> <p>Future capabilities demonstration project supports SM demonstrations, captive flight tests, data collection and analysis tasks.</p> |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |              |                                                                                  |               |         |         | FY 2013                                                    | FY 2014          | FY 2015          |            |
| Title: SM 6 Missile Development/Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |         |              |                                                                                  |               |         |         | 10.273                                                     | -                | -                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |              |                                                                                  |               |         |         | Articles: -                                                | -                | -                |            |
| FY 2013 Accomplishments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |              |                                                                                  |               |         |         |                                                            |                  |                  |            |

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                                                            |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                  | Date: March 2014                                           |            |            |
| Appropriation/Budget Activity<br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements | Project (Number/Name)<br>3092 / Standard Missile 6 Program |            |            |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                  | FY 2013                                                    | FY 2014    | FY 2015    |
| Supported follow on test and evaluation (FOT&E); ACB 12 B/L 9 integration and flight test; and Processor Replacement Program (PRP) flight test and analysis.<br><br><b>FY 2014 Plans:</b><br>N/A<br><br><b>FY 2015 Plans:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |                                                            |            |            |
| <b>Title:</b> Insensitive Munitions (IM)<br><br><b>FY 2013 Accomplishments:</b><br>Active Mitigation (AM) Plan was rebaselined IAW reduced budget to include a re-phased introduction of Insensitive Munitions AM Technologies. Electronic Arm & Fire Device (EAFD) improvements (MIL-STD-1901A) were addressed via an Ignition Safety Device (ISD) approach, leveraging several AM vendors, proposed and led by the prime contractor. Full-scale, static rocket motor testing was deferred. Fuze and Initiation System Technical Review Panel (FISTRP) & Weapon System Explosive Safety Review Board (WSESRB) technical briefs are planned. The bi-annual IM POA&M was prepared.<br><br><b>FY 2014 Plans:</b><br>The prime contractor will continue to develop EAFD/ISD technology at the subscale level. Safety plans and reviews with the safety community are planned. The bi-annual IM POA&M (for FY15/16) will be socialized and endorsed. The IM tech team will continue to participate and collaborate with the ONR HARDKILL effort.<br><br><b>FY 2015 Plans:</b><br>The prime contractor will complete development of EAFD/ISD technology proof-of-concept. Safety plans and reviews with the safety community are planned. The IM tech team will continue to participate and collaborate with the ONR HARDKILL effort. |                                                                                  | <b>Articles:</b><br>3.195<br>-                             | 4.114<br>- | 1.000<br>- |
| <b>Title:</b> Portable All-Up Round Bit Tester (PABTs)<br><br><b>FY 2013 Accomplishments:</b><br>Integrated Baseline Review (IBR). System Requirements review (SRR)/System Functional Review (SFR) and detailed design.<br><br><b>FY 2014 Plans:</b><br>Continue detailed design and development. Preliminary Design Review/Critical Design Review (PDR/CDR) and interface development.<br><br><b>FY 2015 Plans:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  | <b>Articles:</b><br>2.700<br>-                             | 5.000<br>- | 1.000<br>- |

**UNCLASSIFIED**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |                                                                          |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                | <b>Date:</b> March 2014                                                  |                |
| <b>Appropriation/Budget Activity</b><br>1319 / 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>R-1 Program Element (Number/Name)</b><br>PE 0604366N / <i>Standard Missile Improvements</i> | <b>Project (Number/Name)</b><br>3092 / <i>Standard Missile 6 Program</i> |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                | <b>FY 2013</b>                                                           | <b>FY 2014</b> |
| Complete software CDR, test readiness reviews, and 1st article for final qualification test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |                                                                          | <b>FY 2015</b> |
| <b>Title:</b> Naval Integrated Fire Control - Counter Air (NIFC-CA)<br><br><b>FY 2013 Accomplishments:</b><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. Successful execution of one land-based (WSMR) NIFC-CA live fire test. Execution of the CNO directed at-sea Point Mugu Test Center (PMTTC) live fire test. Completion of NIFC-CA CONOPS.<br><br><b>FY 2014 Plans:</b><br>Execution of Live-Fire NIFC-CA tests at WSMR. Execution of three at-sea live fire NIFC-CA tests at PMTTC.<br><br><b>FY 2015 Plans:</b><br>Capabilities and limitations development. Analysis based on federated 6-DOF and live fire test events to support IFC runs for the record.                                                                                                |                                                                                                | 7.072                                                                    | 5.775          |
| <b>Articles:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                | -                                                                        | 2.821          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | -                                                                        | -              |
| <b>Title:</b> Future Capability Demonstration<br><br><b>FY 2013 Accomplishments:</b><br>N/A<br><br><b>FY 2014 Plans:</b><br>Land Based Testing to support: Lethality test assessments, captive carry flight test, data collections, performance analysis tasks, reliability assessment, AEGIS Systems Requirement Review (SRR), and AEGIS Systems Functional Review (SFR).<br><br>Studies to support: Network element trade study, weapon capability characterization study, inherent sensor capability study, and combat system implementation study.<br><br><b>FY 2015 Plans:</b><br>Control test vehicle tests at White Sands Missile Range, data collections, performance analysis tasks, reliability assessment, PDR for ABC, and Combat Systems Integration Test (CSIT). Integration testing of the entire architecture interfaces missile, data network, AEGIS, and airborne sensor. |                                                                                                | -                                                                        | 25.477         |
| <b>Articles:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                | -                                                                        | 36.563         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | -                                                                        | -              |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                | 23.240                                                                   | 41.384         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | 40.366                                                                   |                |

# UNCLASSIFIED

|                                                                  |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
|------------------------------------------------------------------|---------|---------|-----------------|-----------------------------------------------------------------------------------------|------------------|---------|---------|-------------------------------------------------------------------|------------------|---------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy          |         |         |                 |                                                                                         |                  |         |         |                                                                   | Date: March 2014 |                     |            |
| Appropriation/Budget Activity<br>1319 / 5                        |         |         |                 | R-1 Program Element (Number/Name)<br>PE 0604366N / <i>Standard Missile Improvements</i> |                  |         |         | Project (Number/Name)<br>3092 / <i>Standard Missile 6 Program</i> |                  |                     |            |
| C. Other Program Funding Summary (\$ in Millions)                |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| Line Item                                                        | FY 2013 | FY 2014 | FY 2015<br>Base | FY 2015<br>OCO                                                                          | FY 2015<br>Total | FY 2016 | FY 2017 | FY 2018                                                           | FY 2019          | Cost To<br>Complete | Total Cost |
| • WPN 2234: <i>Standard Missile</i>                              | 332.535 | 367.985 | 445.836         | -                                                                                       | 445.836          | 514.449 | 536.614 | 584.833                                                           | 598.848          | 4,681.676           | 8,865.621  |
| • Standard Missile: <i>QTY</i>                                   | 89.000  | 81.000  | 110.000         | -                                                                                       | 110.000          | 125.000 | 125.000 | 125.000                                                           | 125.000          | 842.000             | 1,800.000  |
| Remarks                                                          |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| D. Acquisition Strategy                                          |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| SM-6 Acquisition Strategy signed by OSD AT&L 14 March 2012.      |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| E. Performance Metrics                                           |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| Accomplishments                                                  |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - DT Flight Tests at PMRF - Jan 11                               |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - OT TRR - May 11                                                |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - OT Flight Tests at PMRF - Jul 11                               |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - LRIP III Option II Contract Award - Jul 11                     |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - LRIP IV UCA Contract Award - May 12                            |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - FRP Decision - April 13                                        |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - SM-6 SD&D Contract SPI is currently at 1.00 and CPI is at 1.00 |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - PRP Flight Test July 13                                        |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| Upcoming Milestones                                              |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - DT/OT DI - Jan 14 - Sept 14                                    |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |
| - Integrated Fire Control (IFC) Apr 12 - Jul 16                  |         |         |                 |                                                                                         |                  |         |         |                                                                   |                  |                     |            |

**UNCLASSIFIED**

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy |                        |                                  |             |         |            |                                                                                         |            |                 |            |                                                                   |            | Date: March 2014 |                  |            |                          |
|--------------------------------------------------------|------------------------|----------------------------------|-------------|---------|------------|-----------------------------------------------------------------------------------------|------------|-----------------|------------|-------------------------------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>1319 / 5              |                        |                                  |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604366N / <i>Standard Missile Improvements</i> |            |                 |            | Project (Number/Name)<br>3092 / <i>Standard Missile 6 Program</i> |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                   |                        |                                  |             | FY 2013 |            | FY 2014                                                                                 |            | FY 2015<br>Base |            | FY 2015<br>OCO                                                    |            | FY 2015<br>Total |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location   | 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            | 665.690     | 13.273  | May 2013   | 11.308                                                                                  | Mar 2014   | 16.434          | Nov 2014   | -                                                                 |            | 16.434           | Continuing       | Continuing | Continuing               |
| Design & Analysis                                      | C/CPFF                 | JHU/APL : Laurel MD              | 45.418      | 0.595   | Nov 2012   | 3.049                                                                                   | Mar 2014   | 3.000           | Nov 2014   | -                                                                 |            | 3.000            | -                | 52.062     | -                        |
| Design & Analysis                                      | MIPR                   | MIT/Lin Lab : Lexington, MA      | 0.550       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.550      | -                        |
| Design & Analysis                                      | WR                     | NAWC : China Lake                | 4.434       | 0.153   | Nov 2012   | 0.050                                                                                   | Mar 2014   | -               |            | -                                                                 |            | -                | -                | 4.637      | -                        |
| Design & Analysis                                      | WR                     | NSWC : Dahlgren                  | 10.904      | 0.246   | Nov 2012   | 0.175                                                                                   | Mar 2014   | 0.200           | Nov 2014   | -                                                                 |            | 0.200            | -                | 11.525     | -                        |
| Design & Analysis                                      | WR                     | NSWC : Indian Head               | 3.312       | 0.250   | Nov 2012   | 0.300                                                                                   | Mar 2014   | -               |            | -                                                                 |            | -                | -                | 3.862      | -                        |
| Design & Analysis                                      | WR                     | NSWC : PHD                       | 9.012       | 0.220   | Nov 2012   | 0.050                                                                                   | Mar 2014   | -               |            | -                                                                 |            | -                | -                | 9.282      | -                        |
| Design & Analysis                                      | WR                     | NSWC : Crane                     | 1.256       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 1.256      | -                        |
| Design & Analysis                                      | MIPR                   | JSPO : Eglin AFB                 | 24.049      | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 24.049     | -                        |
| Design & Analysis                                      | C/CPFF                 | LOCKHEED Martin : Moorestown, NJ | 6.074       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 6.074      | -                        |
| Design & Analysis                                      | WR                     | NSWC : Corona                    | 16.559      | -       |            | 0.100                                                                                   | Mar 2014   | -               |            | -                                                                 |            | -                | -                | 16.659     | -                        |
| Design & Analysis                                      | Reqn                   | ONR : Arlington, VA              | 5.320       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 5.320      | -                        |
| Design & Analysis                                      | Reqn                   | NRL : Washington, DC             | 0.090       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.090      | -                        |
| Design & Analysis                                      | WR                     | COMPTEVFOR : Norfolk, VA         | 2.155       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 2.155      | -                        |
| Design & Analysis                                      | WR                     | CARDEROCK : Philadelphia, PA     | 2.549       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 2.549      | -                        |
| Design & Analysis                                      | WR                     | NSWC : Pt Mugu                   | 0.613       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.613      | -                        |
| Design & Analysis                                      | C/CPFF                 | BAE : Rockville, MD              | 6.446       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 6.446      | -                        |
| Design & Analysis                                      | MIPR                   | ARMY : Redstone                  | 0.050       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.050      | -                        |
| Design & Analysis                                      | WR                     | NAWCAD : Pax River, MD           | 0.392       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.392      | -                        |
| Design & Analysis                                      | C/CPFF                 | CORVID : Mooresville, NC         | 2.900       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 2.900      | -                        |
| Design & Analysis                                      | C/CPFF                 | RNB : Arlington, VA              | 0.010       | -       |            | -                                                                                       |            | -               |            | -                                                                 |            | -                | -                | 0.010      | -                        |

**UNCLASSIFIED**

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy |                        |                                     |             |         |            |                                                                                         |            |              |            |                                                                   |            | Date: March 2014 |                  |            |                          |
|--------------------------------------------------------|------------------------|-------------------------------------|-------------|---------|------------|-----------------------------------------------------------------------------------------|------------|--------------|------------|-------------------------------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>1319 / 5              |                        |                                     |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604366N / <i>Standard Missile Improvements</i> |            |              |            | Project (Number/Name)<br>3092 / <i>Standard Missile 6 Program</i> |            |                  |                  |            |                          |
| Product Development (\$ in Millions)                   |                        |                                     |             | FY 2013 |            | FY 2014                                                                                 |            | FY 2015 Base |            | FY 2015 OCO                                                       |            | FY 2015 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location      | 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       | -       |            | -                                                                                       |            | -            |            | -                                                                 |            | -                | -                | 0.007      | -                        |
| Design & Analysis                                      | WR                     | ARMY : Cecom                        | 0.066       | -       |            | -                                                                                       |            | -            |            | -                                                                 |            | -                | -                | 0.066      | -                        |
| Design & Analysis                                      | C/FP                   | GENERAL DYNAMICS : Falls Church, VA | 1.660       | -       |            | -                                                                                       |            | -            |            | -                                                                 |            | -                | -                | 1.660      | -                        |
| Design & Analysis                                      | WR                     | VARIOUS : (IWS 1A)                  | 59.773      | -       |            | 11.000                                                                                  | Mar 2014   | 11.000       | Nov 2014   | -                                                                 |            | 11.000           | -                | 81.773     | -                        |
| Design & Analysis                                      | WR                     | VARIOUS : (VLS)                     | 24.772      | 0.105   | Nov 2012   | 0.050                                                                                   | Mar 2014   | -            |            | -                                                                 |            | -                | -                | 24.927     | -                        |
| Design & Analysis                                      | WR                     | NSWC : WSMR                         | 0.000       | -       | Nov 2012   | 0.100                                                                                   | Mar 2014   | -            |            | -                                                                 |            | -                | -                | 0.100      | -                        |
| Subtotal                                               |                        |                                     | 894.061     | 14.842  |            | 26.182                                                                                  |            | 30.634       |            | -                                                                 |            | 30.634           | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                   |                        |                                     |             | FY 2013 |            | FY 2014                                                                                 |            | FY 2015 Base |            | FY 2015 OCO                                                       |            | FY 2015 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location      | 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                 | 1.190       | 0.175   | Nov 2012   | 0.700                                                                                   | Mar 2014   | 0.500        | Nov 2014   | -                                                                 |            | 0.500            | -                | 2.565      | -                        |
| Developmental Test & Evaluation                        | WR                     | NSWC : WSMR                         | 23.501      | 0.641   | Nov 2012   | 1.900                                                                                   | Mar 2014   | 0.250        | Nov 2014   | -                                                                 |            | 0.250            | -                | 26.292     | -                        |
| Developmental Test & Evaluation                        | WR                     | PMRF : Hawaii                       | 38.201      | -       |            | -                                                                                       |            | -            |            | -                                                                 |            | -                | -                | 38.201     | -                        |
| Developmental Test & Evaluation                        | WR                     | NAWC : Pt Mugu                      | 0.769       | -       |            | 2.000                                                                                   | Mar 2014   | 2.000        | Nov 2014   | -                                                                 |            | 2.000            | -                | 4.769      | -                        |
| Developmental Test & Evaluation                        | C/CPAF                 | RAYTHEON : Tucson, AZ               | 15.266      | 1.841   | May 2013   | 1.854                                                                                   | Mar 2014   | 1.800        | Nov 2014   | -                                                                 |            | 1.800            | -                | 20.761     | -                        |
| Developmental Test & Evaluation                        | C/CPFF                 | JHU/APL : Laurel, MD                | 3.748       | 2.058   | Nov 2012   | 1.630                                                                                   | Mar 2014   | 1.500        | Nov 2014   | -                                                                 |            | 1.500            | -                | 8.936      | -                        |
| Developmental Test & Evaluation                        | WR                     | NSWC : Corona                       | 3.898       | 1.200   | Nov 2012   | 1.620                                                                                   | Mar 2014   | 1.500        | Nov 2014   | -                                                                 |            | 1.500            | -                | 8.218      | -                        |
| Developmental Test & Evaluation                        | WR                     | NSWC : Dahlgren                     | 0.863       | 0.095   | Nov 2012   | 0.550                                                                                   | Mar 2014   | 0.500        | Nov 2014   | -                                                                 |            | 0.500            | -                | 2.008      | -                        |

**UNCLASSIFIED**

|                                                        |                        |                                |             |         |            |                                                                                  |            |              |            |                                                            |            |                  |                  |            |                          |
|--------------------------------------------------------|------------------------|--------------------------------|-------------|---------|------------|----------------------------------------------------------------------------------|------------|--------------|------------|------------------------------------------------------------|------------|------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy |                        |                                |             |         |            |                                                                                  |            |              |            |                                                            |            | Date: March 2014 |                  |            |                          |
| Appropriation/Budget Activity<br>1319 / 5              |                        |                                |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604366N / Standard Missile Improvements |            |              |            | Project (Number/Name)<br>3092 / Standard Missile 6 Program |            |                  |                  |            |                          |
| Test and Evaluation (\$ in Millions)                   |                        |                                |             | FY 2013 |            | FY 2014                                                                          |            | FY 2015 Base |            | FY 2015 OCO                                                |            | FY 2015 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location | 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                     | VLS : Arlington, VA            | 1.555       | 0.339   | Nov 2012   | 0.150                                                                            | Mar 2014   | 0.150        | Nov 2014   | -                                                          |            | 0.150            | -                | 2.194      | -                        |
| Developmental Test & Evaluation                        | WR                     | COMPTEVFOR : Norfolk, Va       | 0.922       | 0.442   | May 2013   | -                                                                                |            | -            |            | -                                                          |            | -                | -                | 1.364      | -                        |
| Developmental Test & Evaluation                        | WR                     | VARIOUS : (IWS 1A)             | 0.902       | -       |            | -                                                                                |            | 0.500        | Nov 2014   | -                                                          |            | 0.500            | -                | 1.402      | -                        |
| Developmental Test & Evaluation                        | WR                     | NSWC : Carderock               | 0.000       | -       |            | 2.000                                                                            | Mar 2014   | 0.500        | Nov 2014   | -                                                          |            | 0.500            | -                | 2.500      | -                        |
| Subtotal                                               |                        |                                | 90.815      | 6.791   |            | 12.404                                                                           |            | 9.200        |            | -                                                          |            | 9.200            | -                | 119.210    | -                        |
| Management Services (\$ in Millions)                   |                        |                                |             | FY 2013 |            | FY 2014                                                                          |            | FY 2015 Base |            | FY 2015 OCO                                                |            | FY 2015 Total    |                  |            |                          |
| Cost Category Item                                     | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                             | Award Date | Cost         | Award Date | Cost                                                       | Award Date | Cost             | Cost To Complete | Total Cost | Target Value of Contract |
| Contractor Engineering Services                        | C/CPAF                 | VARIOUS : Various              | 23.488      | 1.563   | Nov 2012   | 1.730                                                                            | Mar 2014   | 1.500        | Nov 2014   | -                                                          |            | 1.500            | -                | 28.281     | -                        |
| Travel                                                 | Various                | IWS3 : Arlington, VA           | 1.088       | 0.044   | Nov 2012   | 0.050                                                                            | Mar 2014   | 0.050        | Nov 2014   | -                                                          |            | 0.050            | -                | 1.232      | -                        |
| DAWDF                                                  | C/FP                   | Not Specified : Not Specified  | 1.130       | -       |            | -                                                                                |            | -            |            | -                                                          |            | -                | -                | 1.130      | -                        |
| Subtotal                                               |                        |                                | 25.706      | 1.607   |            | 1.780                                                                            |            | 1.550        |            | -                                                          |            | 1.550            | -                | 30.643     | -                        |
|                                                        |                        |                                | Prior Years | FY 2013 |            | FY 2014                                                                          |            | FY 2015 Base |            | FY 2015 OCO                                                |            | FY 2015 Total    | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals                                    |                        |                                | 1,010.582   | 23.240  |            | 40.366                                                                           |            | 41.384       |            | -                                                          |            | 41.384           | -                | -          | -                        |
| Remarks                                                |                        |                                |             |         |            |                                                                                  |            |              |            |                                                            |            |                  |                  |            |                          |

# UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604366N / Standard Missile Improvements

Project (Number/Name)

3092 / Standard Missile 6 Program

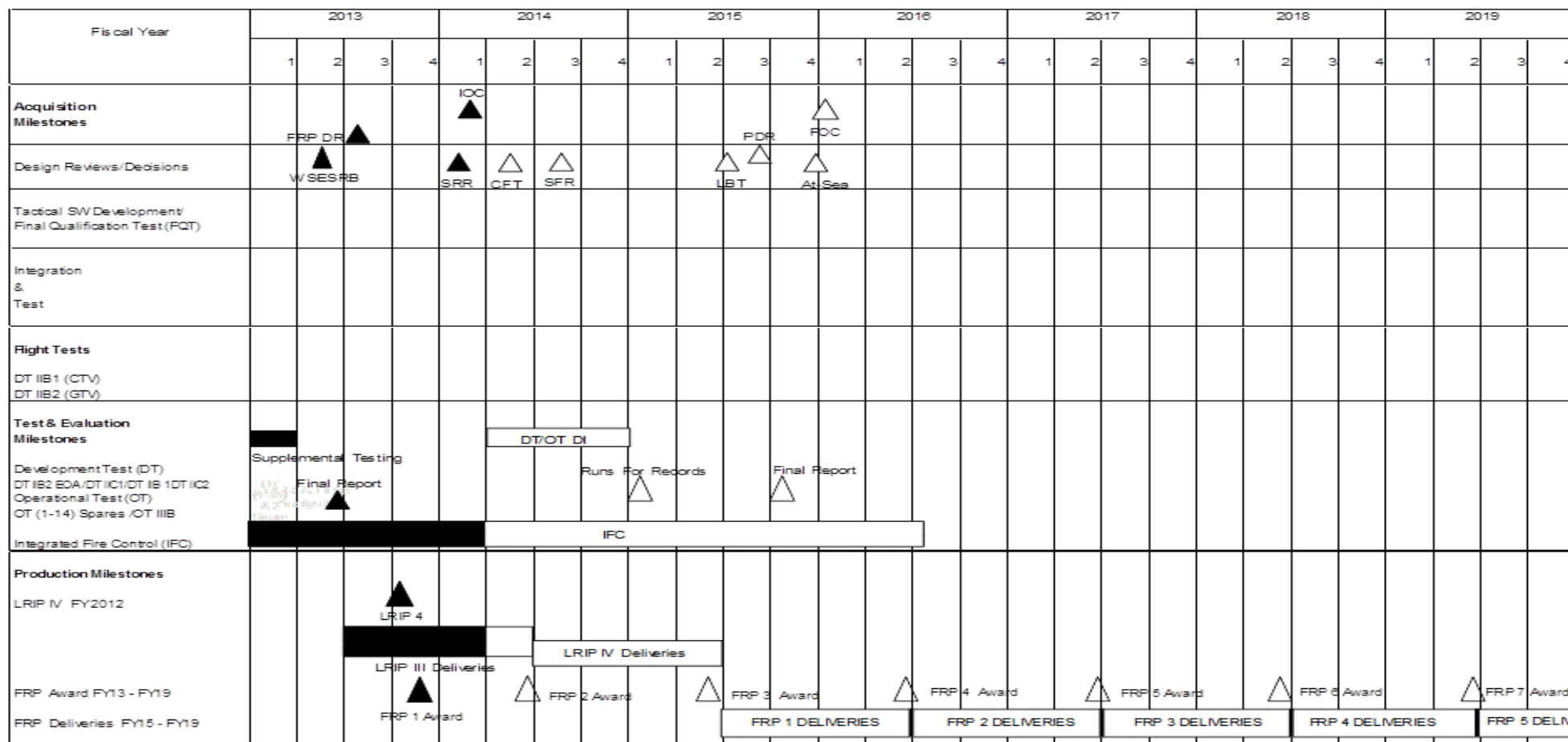


EXHIBIT R-4  
SCHEDULE PROFILE

**UNCLASSIFIED**

|                                                               |                                                                                                |                                                                          |                         |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Navy |                                                                                                |                                                                          | <b>Date:</b> March 2014 |
| <b>Appropriation/Budget Activity</b><br>1319 / 5              | <b>R-1 Program Element (Number/Name)</b><br>PE 0604366N / <i>Standard Missile Improvements</i> | <b>Project (Number/Name)</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                                                       | 1       | 2014 | 1       | 2014 |
| Full-Rate Production (FRP) DAB                            | 3       | 2013 | 3       | 2013 |
| Full Operational Capability (FOC)                         | 4       | 2015 | 1       | 2016 |
| WSESRB                                                    | 1       | 2013 | 2       | 2013 |
| DT/OT DI (FOT&E)                                          | 2       | 2014 | 4       | 2014 |
| Runs for Record Final Report                              | 2       | 2013 | 2       | 2013 |
| Runs for the Record                                       | 1       | 2015 | 1       | 2015 |
| Runs for the Record Final Report                          | 4       | 2015 | 4       | 2015 |
| 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       | 2019 |
| Full Rate Production (FRP) Award                          | 4       | 2013 | 3       | 2019 |
| Future Capability Demonstration Captive Flight Test (CFT) | 2       | 2014 | 2       | 2014 |
| Future Capability Demonstration Base Test (LBT)           | 3       | 2015 | 3       | 2015 |
| Future Capability Demonstration At-Sea test               | 4       | 2015 | 4       | 2015 |
| Future Capability Demonstration SRR                       | 1       | 2014 | 1       | 2014 |
| Future Capability Demonstration SFR                       | 3       | 2014 | 3       | 2014 |
| Future Capability Demonstration PDR                       | 3       | 2015 | 3       | 2015 |
| Integrated Fire Control                                   | 1       | 2013 | 3       | 2016 |
| Low-Rate Initial Production IV Award                      | 4       | 2013 | 4       | 2013 |