Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0604366N: Standard Missile Improvements

BA 5: Development & Demonstration (SDD)

| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
|---------------------------------------|-------------------|---------------------|-----------------------------|----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|
| Total Program Element | 222.937 | 167.200 | 96.186 | 0.000 | 96.186 | 57.474 | 28.191 | 10.578 | 7.689 | Continuing | Continuing |
| 0439: Standard Missile Improvement | 11.894 | 30.227 | 26.054 | 0.000 | 26.054 | 20.473 | 4.919 | 0.255 | 0.263 | Continuing | Continuing |
| 3092: Standard Missile 6 Program | 208.051 | 136.176 | 70.132 | 0.000 | 70.132 | 37.001 | 23.272 | 10.323 | 7.426 | Continuing | Continuing |
| 9999: Congressional Adds | 2.992 | 0.797 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 9.682 |

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. everevolving and proliferating aircraft and ASCM threats and long-range planning are required to keep pace with the threat.

In FY04 the STANDARD Missile 6 (SM-6) program was started to develop an advanced surface missile system with an active seeker and an extended range. The SM-6 missile system will leverage the Navy investment in the AEGIS Weapon System (AWS), Cooperative Engagement Capability (CEC), and airborne early warning systems, which will be upgraded in concert with missile development to support a fully integrated extended range detect-to-engage capability. SM-6 is the enabler for Integrated Fire Control (IFC). Funding to support those upgrades are also included in this line. SM-6 is currently executing the ground based flight test program and planning for the DT/OT flight test phase of the SD&D effort.

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, and TAMD Capstone Requirements Document.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy | | DATE: February 2010 |
|--|--|---------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | |
| 1319: Research, Development, Test & Evaluation, Navy | PE 0604366N: Standard Missile Improvements | |
| BA 5: Development & Demonstration (SDD) | | |

B. Program Change Summary (\$ in Millions)

| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|---|---------|---------|---------------------|-------------|---------------|
| Previous President's Budget | 236.976 | 182.197 | 0.000 | 0.000 | 0.000 |
| Current President's Budget | 222.937 | 167.200 | 96.186 | 0.000 | 96.186 |
| Total Adjustments | -14.039 | -14.997 | 96.186 | 0.000 | 96.186 |
| Congressional General Reductions | | -0.697 | | | |
| Congressional Directed Reductions | | -15.000 | | | |
| Congressional Rescissions | 0.000 | -0.100 | | | |
| Congressional Adds | | 0.800 | | | |
| Congressional Directed Transfers | | 0.000 | | | |
| Reprogrammings | -7.471 | 0.000 | | | |
| SBIR/STTR Transfer | -6.569 | 0.000 | | | |
| Program Adjustments | 0.000 | 0.000 | 96.186 | 0.000 | 96.186 |
| Rate/Misc Adjustments | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |

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

Project: 9999: Congressional Adds

Congressional Add: *Automated Missile Tracking*Congressional Add: *Extensible Launching Systems*

| | 0.000 | 0.797 |
|---|-------|-------|
| | 2.992 | 0.000 |
| Congressional Add Subtotals for Project: 9999 | 2.992 | 0.797 |
| Congressional Add Totals for all Projects | 2.992 | 0.797 |

FY 2009

FY 2010

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

DATE: Echruany 2010

| EXHIBIT R-2A, RD I &E Project Ju | Stiffication: P | B ZUTT Navy | / | | | | | | DAIE: Feb | ruary 2010 | | |
|---|-------------------|---------------------|-----------------------------|----------------------------|------------------------------|---------------------|---------------------|------------------------|--------------------------|---------------------|---------------|--|
| APPROPRIATION/BUDGET ACT 1319: Research, Development, Te BA 5: Development & Demonstrat | est & Evaluation | on, Navy | | | | | | PROJECT 0439: Stand | dard Missile Improvement | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost | |
| 0439: Standard Missile Improvement | 11.894 | 30.227 | 26.054 | 0.000 | 26.054 | 20.473 | 4.919 | 0.255 | 0.263 | Continuing | Continuing | |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

A. Mission Description and Budget Item Justification

Exhibit P 2A PDT8 E Project Justification: PR 2011 Navy

Modifications to SM-2 BLK IIIB are required for use on DDG-1000 class destroyers. The Joint Universal Waveform Link (JUWL) will be integrated with 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.

B. Accomplishments/Planned Program (\$ in Millions)

| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|---|---------|---------|-----------------|----------------|------------------|
| Standard Missile Improvement | 11.894 | 30.227 | 26.054 | 0.000 | 26.054 |
| DDG-1000 Pre Plan Product Improvement (P3I)Link Integration/Interrupted Continuous Wave Illuminator (ICWI) | | | | | |
| FY 2009 Accomplishments: ESSM takes lead role in P3I Link implementation. After requirements definition, ESSM designs, reviews and orders Proof of Design (POD) hardware from suppliers. | | | | | |
| FY 2010 Plans: ESSM assembles POD assets, conducts testing, holds Critical Design Review, and orders hardware for Production Representative Model of ESSM. SM-2 finalizes requirements, designs, reviews and orders POD hardware. | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | DATE: February 2010 |
|---|--|-------------|----------------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 1319: Research, Development, Test & Evaluation, Navy | PE 0604366N: Standard Missile Improvements | 0439: Stand | dard Missile Improvement |
| BA 5: Development & Demonstration (SDD) | | | |

B. Accomplishments/Planned Program (\$ in Millions)

| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|---|---------|---------|-----------------|----------------|------------------|
| FY 2011 Base Plans: ESSM assembles and tests PRMs and orders missiles to support flight test program. SM-2 assembles POD assets, conducts testing, holds Critical Design Review, and orders hardware for Production Representative Model of SM-2. | | | | | |
| Accomplishments/Planned Programs Subtotals | 11.894 | 30.227 | 26.054 | 0.000 | 26.054 |

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

N/A

D. Acquisition Strategy

Development is expected to conclude by FY15 for the X-band (JUWL) and SM-2 IIIB ICWI. Production representative missiles will be built between FY11 & FY13 for the 86 ESSM missiles and 48 SM-2 missiles required to support Developmental Test & Operational Test (DT&OT) in FY13 through FY15.

E. Performance Metrics

- ESSM initial engineering design for X-Band Joint Universal Weapons Link (JUWL) capability was completed and Engineering Development Models (EDMs) were built and tested.
- ESSM successfully completed its Preliminary Design Review in October 2009.
- ESSM will order material/parts and assemble Proof of Design units to conduct design verification tests.
- In October 2010 ESSM will conduct its Critical Design Review.
- SM-2 begins full scale engineering development of X-Band JUWL capability and implementation of interrupted continuous wave illumination (ICWI) functionality.
- SM-2 PDR is planned for December 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 0439: Standard Missile Improvement

Product Development (\$ in Millions)

| | | | | FY 2 | 2010 | FY 2 Ba | | FY 2 | | FY 2011 Total | | | |
|-----------------------|------------------------------|--------------------------------------|---------------------------|--------|---------------|------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | 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 | 165.205 | 30.227 | Nov 2009 | 26.054 | Nov 2010 | 0.000 | | 26.054 | Continuing | Continuing | Continuing |
| Design and Analysis2 | C/CPFF | JHU/APL Laurel, MD | 3.750 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.750 | Continuing |
| Design and Analysis3 | MIPR | MIT/Lin Lab Lexington, MA | 0.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.050 | Continuing |
| Design and Analysis4 | WR | NSWC Dahlgren | 787.314 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 787.314 | Continuing |
| Design and Analysis5 | WR | NSWC Indian Head | 0.940 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.940 | Continuing |
| Design and Analysis6 | WR | NAWC China Lake | 3.030 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.030 | Continuing |
| Design and Analysis7 | Various/ CPFF | LOCKHEED MARTIN Moorestown, NJ | 17.775 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 17.775 | Continuing |
| Design and Analysis8 | WR | CNO Washington, DC | 0.010 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.010 | Continuing |
| Design and Analysis9 | WR | CMDP Phoenix, AZ | 4.795 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 4.795 | Continuing |
| Design and Analysis11 | WR | NSWC Crane | 0.257 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.257 | Continuing |
| Design and Analysis12 | WR | DOI&CNAP Washington, DC | 0.487 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.487 | Continuing |
| Design and Analysis13 | WR | COMPTEVFOR Norfolk, VA | 0.100 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.100 | Continuing |

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 0439: Standard Missile Improvement

Product Development (\$ in Millions)

| | | | | FY 2 | 010 | | 2011 ise | FY 20 OCC | | FY 2011 Total | | | |
|-----------------------|------------------------------|--------------------------------------|---------------------------|--------|---------------|--------|---------------|--------------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Design and Analysis14 | Various/ CPFF | LOCKHEED MARTIN Moorestown, NJ | 2.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.000 | Continuing |
| Design and Analysis15 | WR | CARDEROCK Bethesda, MD | 0.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.050 | Continuing |
| Design and Analysis16 | WR | NWAS Corona | 0.325 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.325 | Continuing |
| Design and Analysis17 | Various/ CPFF | CORVID Mooresville, NC | 0.100 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.100 | Continuing |
| Design and Analysis18 | Various/ CPFF | BAE Rockville, MD | 0.101 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.101 | Continuing |
| Design and Analysis19 | MIPR | MDA Dahlgren,VA | 1.257 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.257 | Continuing |
| | | Subtotal | 987.546 | 30.227 | | 26.054 | | 0.000 | | 26.054 | | | |

Remarks

Test and Evaluation (\$ in Millions)

| | • | , | | FY 2 | 010 | FY 2 Ba | - | FY 2 | - | FY 2011 Total | | | |
|-------------------------------------|------------------------------|--------------------------------------|---------------------------|-------|---------------|------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| DEVELOPMENTAL TEST & EVALUATION1 | WR | NSWC PHD | 0.185 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.185 | Continuing |

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 0439: Standard Missile Improvement

Test and Evaluation (\$ in Millions)

| | | | | FY 2 | FY 2010 | | FY 2011 Base | | FY 2011 OCO | | | | |
|-------------------------------------|------------------------------|--------------------------------------|---------------------------|-------|---------------|-------|-----------------|-------|----------------|-------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| DEVELOPMENTAL TEST & EVALUATION2 | WR | WSMR New Mexico | 1.600 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.600 | Continuing |
| DEVELOPMENTAL TEST & EVALUATION3 | WR | NAWC Pt Mugu | 0.098 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.098 | Continuing |
| DEVELOPMENTAL TEST & EVALUATION4 | WR | PMRF Hawaii | 0.338 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.338 | Continuing |
| DEVELOPMENTAL TEST & EVALUATION5 | WR | NSWC PHD | 0.567 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.567 | Continuing |
| | | Subtotal | 2.788 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.788 | |

Remarks

Management Services (\$ in Millions)

| management Servic | νου (ψ III IIII | | | FY 2 | 2010 | FY 20 Bas | | FY 2 | | FY 2011 Total | | | |
|--------------------------------------|------------------------------|--------------------------------------|---------------------------|-------|---------------|--------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CONTRACTOR ENGINEERING SUPPORT | C/CPAF | VARIOUS VARIOUS | 1.993 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.993 | Continuing |
| PROGRAM MANAGEMENT SUPPORT | C/CPAF | VARIOUS VARIOUS | 2.294 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.294 | Continuing |
| TRAVEL | Allot | IWS3 | 0.056 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.056 | Continuing |

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 0439: Standard Missile Improvement

Management Services (\$ in Millions)

| | | | | FY 20 | 010 | FY 2 Ba | | FY 2 | - | FY 2011 Total | | | |
|--------------------|------------------------------|--------------------------------------|---------------------------|-------|---------------|------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| | | Arlington, VA | | | | | | | | | | | |
| | | Subtotal | 4.343 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 4.343 | |

Remarks

| | Total Prior Years Cost | FY 2 | 2010 | | 2011 Ise | FY 2 | 2011 CO | FY 2011 Total | Cost To | Total Cost | Target Value of Contract |
|---------------------|---------------------------|--------|------|--------|-------------|-------|------------|------------------|----------|------------|--------------------------|
| | icuis cost | | .0.0 | | | • | | TOtal | Complete | Total Goot | Jonata |
| Project Cost Totals | 994.677 | 30.227 | | 26.054 | | 0.000 | | 26.054 | | | |

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

BA 5: Development & Demonstration (SDD)

| = · · · · · = · · · · · · · · · · · · · | (-) | | | | | | | | | | |
|---|-------------------|---------------------|-----------------------------|----------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| 3092: Standard Missile 6 Program | 208.051 | 136.176 | 70.132 | 0.000 | 70.132 | 37.001 | 23.272 | 10.323 | 7.426 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

A. Mission Description and Budget Item Justification

This program leverages existing missile technology and advanced missile technology. It aligns missile technology roadmaps across the Services (NAVSEA, NAVAIR, USAF, USMC and USA) and missile variants within the Services, taking advantage of the Navy's investment in the AEGIS Weapon System (AWS), CEC, and airborne early warning systems. This

missile will provide an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotary-wing aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight, thereby contributing to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets as discussed in the Joint TAMD MNS, DPG, QDR, TAMD Capstone Requirements Document, Forward From the Sea, Joint Vision 2010/2020, the 2002/2003 Naval Transformational Roadmap and the Operational Requirements Document for SM-6 Extended Range Active Missile (ERAM).

This project addresses the Navy's requirement for an extended range area air defense missile. The SM-6 Extended Range Active Missile (ERAM) is the Navy's transformational enabler for the Sea Shield Operational Concept and enables the opportunity for Sea Basing Sea Strike. This effort includes risk reduction, System Development and Demonstration (SD&D) design, insensitive munitions improvement, transition to production and operational test of the latest STANDARD Missile with the kinematic performance to defeat current and projected threats that possess low altitude, high altitude, and high velocity and maneuver characteristics at the max kinematic range of the missile. SM-6 is currently executing the ground based flight test program and planning for the DT/OT flight test phase of the SD&D effort.

The Joint Integrated Fire Enhancement funding is JROC directed for the integration of the Joint Land Attack Elevated Netted Sensor (JLENS) into the Naval Integrated Fire Control-Counter Air (NIFC-CA) kill chain; specifically, SM-6 integration with the JLENS and the AEGIS Weapon System (AWS). The funding identified in this budget is part of an integrated funding package that also includes funding for PEO IWS 1.0, PEO IWS 6.0, PEO IWS 7.0 and the Army's Cruise Missile Defense Systems JLENS Product Office.

B. Accomplishments/Planned Program (\$ in Millions)

| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | DATE: February 2010 |
|---|--|------------|------------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 1319: Research, Development, Test & Evaluation, Navy | PE 0604366N: Standard Missile Improvements | 3092: Stan | dard Missile 6 Program |
| BA 5: Development & Demonstration (SDD) | | | |
| D. A | · | | |

B. Accomplishments/Planned Program (\$ in Millions)

| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|---|---------|---------|-----------------|----------------|------------------|
| Joint Integrated Fire Enhancement | 1.220 | 2.581 | 4.579 | 0.000 | 4.579 |
| Joint Integrated Fire Enhancement | | | | | |
| FY 2009 Accomplishments: Modeling and Simulation Integration. | | | | | |
| FY 2010 Plans: Initial scenario and test planning development and integration and test efforts. | | | | | |
| FY 2011 Base Plans: Scenario and test planning development and integration and test activities and end-to-end scenario test predictions. | | | | | |
| SM 6 Missile Development | 164.543 | 111.202 | 54.422 | 0.000 | 54.422 |
| Missile development | | | | | |
| FY 2009 Accomplishments: CTV-1 (Control Test Vehicle) Low Rate Initial Production (LRIP) Milestone C prep and execution; DT/OT Flight test preparation and targets prep. | | | | | |
| FY 2010 Plans: GTV-3; DT/OT Flight Test execution at Pacific Missile Range Facility (PMRF); 17 flight tests planned. | | | | | |
| FY 2011 Base Plans: OT Flight Test analysis; ACB 12 and CSEDS integration and test; Captive Carry Flight Test; Integrated Fire Control (IFC) integration and test; FOT&E prep | | | | | |
| Insensitive Munitions (IM) | 27.136 | 10.100 | 0.000 | 0.000 | 0.000 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | DATE: February 2010 |
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| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 1319: Research, Development, Test & Evaluation, Navy | PE 0604366N: Standard Missile Improvements | 3092: Stan | dard Missile 6 Program |
| BA 5: Development & Demonstration (SDD) | | | |

B. Accomplishments/Planned Program (\$ in Millions)

| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|--|---------|---------|-----------------|----------------|------------------|
| SM-6 Insensitive Munitions (IM) | | | | | |
| FY 2009 Accomplishments: Perform system design and development activities on the IM designs. Begin testing of the MK72 composite case including ambient and environmental tests and a propellant mitigation capable MK72. Start forward dome demonstrations. | | | | | |
| FY 2010 Plans: Perform (3) Slow Cook Off (SCO) tests: (1) strip down demo with MK104/MK72 with dual chemical sensor initiators and (2) with warhead-full up missile. Perform tactical MK72 composite case tests with forward dome functionality, then with forward dome capable cases. | | | | | |
| SM6/AWS & VLS Integration | 14.022 | 12.293 | 2.700 | 0.000 | 2.700 |
| SM6/AWS & VLS Integration | | | | | |
| FY 2009 Accomplishments: AEGIS Weapons System and MK 41 Vertical Launch Integration of SM-6. | | | | | |
| FY 2010 Plans: AEGIS Weapons System and MK 41 Vertical Launch Integration of SM-6. | | | | | |
| FY 2011 Base Plans: AEGIS Weapons System and MK 41 Vertical Launch Integration of SM-6. | | | | | |
| SM6 OT&E Support | 0.000 | 0.000 | 8.431 | 0.000 | 8.431 |
| FY 2011 Base Plans: This effort will complete activities related to the SM-6 OT Flight Testing and analyzing test results to support COTF. | | | | | |

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R-1 Line Item #103 Page 11 of 23

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY

PROJECT R-1 ITEM NOMENCLATURE 1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

B. Accomplishments/Planned Program (\$ in Millions)

| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
|---|--|---------|---------|-----------------|----------------|------------------|
| Defense Acquisition Workforce Development Fund | | 1.130 | 0.000 | 0.000 | 0.000 | 0.000 |
| Defense Acquisition Workforce Development Fund | | | | | | |
| FY 2009 Accomplishments: Defense Acquisition Workforce Development Fund | | | | | | |
| | Accomplishments/Planned Programs Subtotals | 208.051 | 136.176 | 70.132 | 0.000 | 70.132 |

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

| | | | FY 2011 | <u>FY 2011</u> | FY 2011 | | | | | Cost To | |
|----------------------------|---------|---------|-------------|----------------|--------------|---------|---------|---------|---------|-----------------|------------|
| <u>Line Item</u> | FY 2009 | FY 2010 | <u>Base</u> | OCO | <u>Total</u> | FY 2012 | FY 2013 | FY 2014 | FY 2015 | Complete | Total Cost |
| WPN 2234: Standard Missile | 118.471 | 90.734 | 285.977 | 0.000 | 285.977 | 496.670 | 651.591 | 655.818 | 637.392 | 2,498.429 | 5,435.082 |

D. Acquisition Strategy

The Navy awarded a contract for SM-6 development, design, testing, production and support (including spares) to Raytheon using other than full and open competition pursuant to the authority of 10 U.S.C. 2304(c)(1).

The active seeker guidance section for the SM-6 will be built in a joint production facility with the Advance Medium Range Air to Air Missile (AMRAAM).

The remainder of the SM-6 AUR components will be produced in existing production facilities that are currently producing other variants of the STANDARD missile.

No new facilities will be required for SM-6 production, and existing equipment will be used whenever possible.

No source other than Raytheon is capable of producing a shipboard ERAM missile within the Navy's schedule.

SM-6 Acquisition Strategy signed by OSD AT&L 3 March 2004.

| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | DATE: February 2010 |
|---|--|------------|------------------------|
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE | PROJECT | |
| 1319: Research, Development, Test & Evaluation, Navy | PE 0604366N: Standard Missile Improvements | 3092: Stan | dard Missile 6 Program |
| RA 5: Development & Demonstration (SDD) | | | |

E. Performance Metrics

Accomplishments

- SM-6 PABT WSESRB Executive Board 12 May 09
- ASN (RDA) Gate 6 14 May 09
- ASN (RDA) OIPT 2 Jun 09
- ASN (RDA) DAB 29 Jul 09
- CTV-1A Flight Test 28 Aug 09
- LRIP Lot Contract Award 4 Sep 09
- DT/OT SSSTRP 7 Dec 09
- DT/OT WSESRB 16 Dec 09

SM-6 SD&D Contract SPI is currently at 0.978 and CPI at 0.976

Upcoming Milestones

- GTV-3 Flight Test 11 Jan 10
- DT/OT TRR Feb 10
- OIPT (Cost Certification) Mar 10
- DAB (Cost Certification) Mar 10
- DT/OT Flight Tests @ PMRF Mar/Apr 10
- OT TRR Aug 10
- OT Flight Tests at PMRF Sep/Oct 10

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Product Development (\$ in Millions)

| | | | | FY 2 | 2010 | FY 2011 Base | | FY 2011 OCO | | FY 2011 Total | | | |
|--------------------|------------------------------|--------------------------------------|---------------------------|--------|---------------|-----------------|---------------|----------------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | 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 | 559.764 | 73.736 | Nov 2009 | 42.692 | Nov 2010 | 0.000 | | 42.692 | 0.000 | 676.192 | Continuing |
| Design & Analysis | C/CPFF | JHU/APL Laurel MD | 31.881 | 6.041 | Jan 2010 | 2.759 | Nov 2010 | 0.000 | | 2.759 | 0.000 | 40.681 | Continuing |
| Design & Analysis | MIPR | MIT/Lin Lab Leington, MA | 0.550 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.550 | Continuing |
| Design & Analysis | WR | NAWC China Lake | 2.907 | 0.300 | Nov 2009 | 0.015 | Nov 2010 | 0.000 | | 0.015 | 0.000 | 3.222 | Continuing |
| Design & Analysis | WR | NSWC Dahlgren | 7.735 | 1.102 | Nov 2009 | 0.403 | Nov 2010 | 0.000 | | 0.403 | 0.000 | 9.240 | Continuing |
| Design & Analysis | WR | NSWC Iindian Head | 2.734 | 0.527 | Nov 2009 | 0.010 | Nov 2010 | 0.000 | | 0.010 | 0.000 | 3.271 | Continuing |
| Design & Analysis | WR | NSWC PHD | 7.125 | 0.471 | Nov 2009 | 0.221 | Nov 2010 | 0.000 | | 0.221 | 0.000 | 7.817 | Continuing |
| Design & Analysis | WR | NSWC Crane | 0.891 | 0.150 | Nov 2009 | 0.150 | Nov 2010 | 0.000 | | 0.150 | 0.000 | 1.191 | Continuing |
| Design & Analysis | MIPR | JSPO Eglin AFB | 11.922 | 10.800 | Nov 2009 | 7.600 | Nov 2010 | 0.000 | | 7.600 | 0.000 | 30.322 | Continuing |
| Design & Analysis | C/CPFF | LOCKHEED Martin Moorestown, NJ | 5.794 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 5.794 | Continuing |
| Design & Analysis | WR | NSWC Corona | 12.334 | 3.604 | Nov 2009 | 0.621 | Nov 2010 | 0.000 | | 0.621 | 0.000 | 16.559 | Continuing |
| Design & Analysis | Reqn | ONR Arlington, VA | 5.150 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 5.150 | Continuing |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

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APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Product Development (\$ in Millions)

| | | | | FY 2011 FY 2010 Base | | FY 2011 FY 2011 OCO Total | | | | | | | |
|--------------------|------------------------------|---|---------------------------|----------------------|---------------|------------------------------|---------------|-------|---------------|-------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Design & Analysis | Reqn | NRL Washingoton, DC | 0.090 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.090 | Continuin |
| Design & Analysis | WR | COMPTEVFOR Norfolk, VA | 1.194 | 0.711 | Nov 2009 | 0.250 | Nov 2010 | 0.000 | | 0.250 | 0.000 | 2.155 | Continuin |
| Design & Analysis | WR | CARDEROCK Philadelphia, PA | 2.149 | 0.200 | Nov 2009 | 0.200 | Nov 2010 | 0.000 | | 0.200 | 0.000 | 2.549 | Continuing |
| Design & Analysis | WR | NSWC Pt Mugu | 0.213 | 0.400 | Nov 2009 | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.613 | Continuing |
| Design & Analysis | C/CPFF | BAE Rockville, MD | 5.793 | 0.653 | Nov 2009 | 0.000 | | 0.000 | | 0.000 | 0.000 | 6.446 | Continuing |
| Design & Analysis | MIPR | ARMY Redstone | 0.050 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.050 | Continuing |
| Design & Analysis | WR | NAWCAD Pax River, MD | 0.392 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.392 | Continuing |
| Design & Analysis | C/CPFF | CORVID Mooresville, NC | 2.050 | 0.450 | Nov 2009 | 0.450 | Nov 2010 | 0.000 | | 0.450 | 0.000 | 2.950 | Continuing |
| Design & Analysis | C/CPFF | RNB Arlington, VA | 0.010 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.010 | Continuing |
| Design & Analysis | WR | SPAWAR Arlington, VA | 0.007 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.007 | Continuing |
| Design & Analysis | WR | ARMY Cecom | 0.066 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.066 | Continuing |
| Design & Analysis | C/FP | General Dynamics Falls Church, VA | 1.660 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.660 | Continuing |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

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APPROPRIATION/BUDGET ACTIVITY

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Product Development (\$ in Millions)

| • | ٠. | , | | | | | | | | | | | |
|--------------------|------------------------------|--------------------------------------|---------------------------|---------|---------------|------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| | | | | FY 2 | 010 | FY 2 Ba | | FY 2 | | FY 2011 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Design & Analysis | Various/ Various | VARIOUS (IWS 1A) | 43.797 | 8.916 | Nov 2009 | 3.000 | Nov 2010 | 0.000 | | 3.000 | 0.000 | 55.713 | Continuing |
| Design & Analysis | Various/ Various | VARIOUS (VLS) | 21.646 | 2.065 | Nov 2009 | 0.805 | Nov 2010 | 0.000 | | 0.805 | 0.000 | 24.516 | Continuing |
| | _ | Subtotal | 727.904 | 110.126 | | 59.176 | | 0.000 | | 59.176 | 0.000 | 897.206 | |

Remarks

Test and Evaluation (\$ in Millions)

| | | | FY 2010 | | FY 2011 Base | | FY 2011 OCO | | FY 2011 Total | | | | |
|---------------------------------|------------------------------|--------------------------------------|---------------------------|--------|-----------------|-------|----------------|-------|------------------|-------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Develpomental Test & Evaluation | WR | NSWC PHD | 0.200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.200 | Continuing |
| Develpomental Test & Evaluation | WR | NSWC WSMR | 16.321 | 1.000 | Jan 2010 | 1.000 | Nov 2010 | 0.000 | | 1.000 | 0.000 | 18.321 | Continuing |
| Develpomental Test & Evaluation | WR | PMRF Hawaii | 3.089 | 20.000 | Jan 2010 | 0.000 | | 0.000 | | 0.000 | 0.000 | 23.089 | Continuing |
| Develpomental Test & Evaluation | WR | NAWC Pt Mugu | 0.369 | 0.400 | Jan 2010 | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.769 | Continuing |
| Develpomental Test & Evaluation | C/CPAF | Raytheon Tucson, AZ | 0.000 | 0.000 | | 5.431 | Dec 2010 | 0.000 | | 5.431 | 0.000 | 5.431 | Continuing |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

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APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Test and Evaluation (\$ in Millions)

| | | | | FY 2011 FY 2010 Base | | 1 | | FY 2011 Total | | | | | |
|---------------------------------|------------------------------|--------------------------------------|---------------------------|-------------------------|---------------|-------|---------------|------------------|---------------|-------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Develpomental Test & Evaluation | C/CPFF | JHU/APL Laurel, MD | 0.000 | 0.000 | | 1.250 | Nov 2010 | 0.000 | | 1.250 | 0.000 | 1.250 | Continuing |
| Develpomental Test & Evaluation | WR | NSWC Corona | 0.000 | 0.000 | | 1.000 | Nov 2010 | 0.000 | | 1.000 | 0.000 | 1.000 | Continuing |
| Develpomental Test & Evaluation | WR | COMPTEVFOR Norfolk | 0.000 | 0.000 | | 0.250 | Nov 2010 | 0.000 | | 0.250 | 0.000 | 0.250 | Continuing |
| Develpomental Test & Evaluation | WR | NSWC Dahlgren | 0.000 | 0.000 | | 0.500 | Nov 2010 | 0.000 | | 0.500 | 0.000 | 0.500 | Continuing |
| | | Subtotal | 19.979 | 21.400 | | 9.431 | | 0.000 | | 9.431 | 0.000 | 50.810 | |

Remarks

Management Services (\$ in Millions)

| | | | | FY 2010 | | FY 2011 Base | | FY 2011 OCO | | FY 2011 Total | | | |
|---------------------------------|------------------------------|--------------------------------------|---------------------------|---------|---------------|-----------------|---------------|----------------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | 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 | 15.905 | 4.500 | Jan 2010 | 1.500 | Nov 2010 | 0.000 | | 1.500 | 0.000 | 21.905 | Continuin |
| Travel | Various/ Various | IWS3 Arlington, VA | 0.728 | 0.150 | Dec 2009 | 0.025 | Nov 2010 | 0.000 | | 0.025 | 0.000 | 0.903 | Continuin |
| DAWDF | C/FP | Not Specified Not Specified | 1.130 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.130 | Continuin |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

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APPROPRIATION/BUDGET ACTIVITY

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Management Services (\$ in Millions)

| | | | | FY 2 | 2010 | FY 2 Ba | | FY 2 | | FY 2011 Total | | | |
|--------------------|------------------------------|--------------------------------------|---------------------------|-------|---------------|------------|---------------|-------|---------------|------------------|---------------------|------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| | | Subtotal | 17.763 | 4.650 | | 1.525 | | 0.000 | | 1.525 | 0.000 | 23.938 | |

Remarks

| | Total Prior Years Cost | FY 2 | 2010 | | 2011 ase | FY 2011 OCO | FY 2011 Total | Cost To | Total Cost | Target Value of Contract |
|---------------------|---------------------------|---------|------|--------|-------------|----------------|------------------|----------|------------|--------------------------|
| | Tears Cost | F 1 4 | .010 | D 6 | 156 | 000 | Iotai | Complete | TOTAL COST | Contract |
| Project Cost Totals | 765.646 | 136.176 | | 70.132 | | 0.000 | 70.132 | 0.000 | 971.954 | |

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy

R-1 ITEM NOMENCLATURE

DATE: February 2010

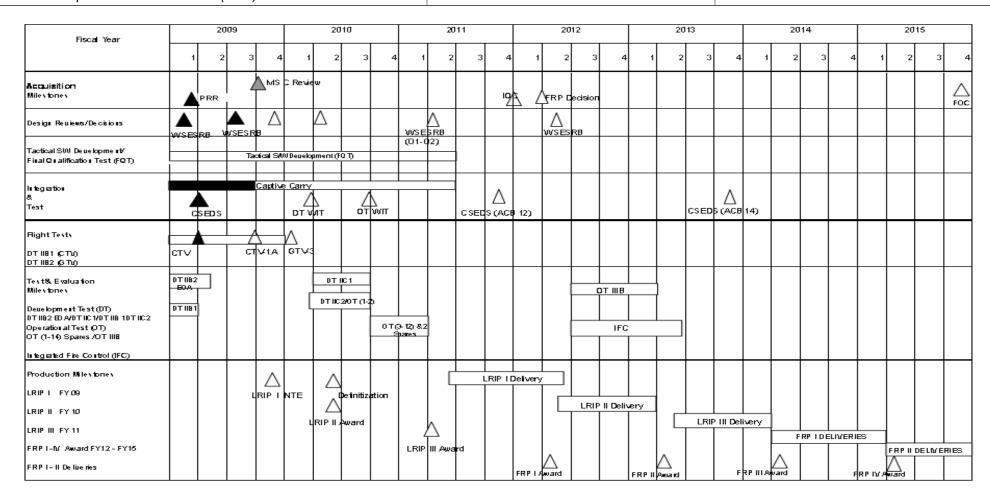
APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

PROJECT



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**

PROJECT 1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

Schedule Details

| | Sta | art | End | | |
|--|---------|------|---------|------|--|
| Event | Quarter | Year | Quarter | Year | |
| Preproduction Readiness Review (PRR) | 1 | 2009 | 1 | 2009 | |
| Milestone C (MS C) Review | 3 | 2009 | 4 | 2009 | |
| IOC/Deployment | 4 | 2011 | 1 | 2012 | |
| Full-Rate Production (FRP) Decision | 1 | 2012 | 2 | 2012 | |
| Full Operational Capability (FOC) | 4 | 2015 | 4 | 2015 | |
| WSESRB | 1 | 2009 | 2 | 2012 | |
| Software Design/Final Qualification Test (FQT) | 1 | 2009 | 2 | 2011 | |
| Captive Carry | 1 | 2009 | 2 | 2011 | |
| CSEDS (ACB 12) (ACB 14) | 1 | 2009 | 4 | 2013 | |
| DT WIT, OT WIT | 1 | 2010 | 4 | 2010 | |
| Flight Test (CTV), (CTV1A), (GTV3) | 1 | 2009 | 1 | 2010 | |
| Developmental Testing (DT-IIB2) Early Operational Assessment | 1 | 2009 | 2 | 2009 | |
| Developmental Testing (DT-IIC1) | 2 | 2010 | 3 | 2010 | |
| Developmental Testing (DT-IIB1) | 1 | 2009 | 1 | 2009 | |
| Developmental Testing (DT-IIC2/OT-[1&2]) | 1 | 2010 | 3 | 2010 | |
| Operational Testing (OT-[3-12 & 2 Spares]) | 4 | 2010 | 1 | 2011 | |
| OT IIIB | 3 | 2012 | 1 | 2013 | |
| Integrated Fire Control (IFC) | 3 | 2012 | 2 | 2013 | |

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0604366N: Standard Missile Improvements | 3092: Standard Missile 6 Program

| | S | tart | End | | |
|--|---------|------|---------|------|--|
| Event | Quarter | Year | Quarter | Year | |
| Low-Rate Initial Production I (LRIP I NTE) | 4 | 2009 | 4 | 2009 | |
| Low-Rate Production I (Definitization) | 2 | 2010 | 2 | 2010 | |
| Low-Rate Initial Production II (LRIP II Award) | 2 | 2010 | 2 | 2010 | |
| Low-Rate Initial Production III (LRIP III Award) | 1 | 2011 | 2 | 2011 | |
| Low-Rate Initial Production I Delivery | 2 | 2011 | 2 | 2012 | |
| Low-Rate Initial Production II Delivery | 2 | 2012 | 1 | 2013 | |
| Low-Rate Initial Production III Delivery | 2 | 2013 | 1 | 2014 | |
| Full Rate Production (FRP) I-IV Award | 2 | 2012 | 2 | 2015 | |
| Full Rate Production I (FRP) Deliveries | 2 | 2014 | 1 | 2015 | |
| Full Rate Production II (FRP) Deliveries | 2 | 2015 | 4 | 2015 | |

DATE: February 2010

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| APPROPRIATION/BUDGET ACTIN 1319: Research, Development, Test BA 5: Development & Demonstratio | rch, Development, Test & Evaluation, Navy | | | | IOMENCLA 6N: Standard | TURE d Missile Imp | provements | PROJECT 9999: Congressional Adds | | | | |
|---|---|---------------------|-----------------------------|----------------------------|------------------------------|-----------------------|---------------------|-------------------------------------|---------------------|---------------------|---------------|--|
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost | |
| 9999: Congressional Adds | 2.992 | 0.797 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 9.682 | |

A. Mission Description and Budget Item Justification

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Quantity of RDT&E Articles

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

The Extensible Launching System (ExLS) is a potential low cost alternative method to integrate existing certified encanistered missiles/munitions (like Nulka) into VLS equipped platforms. ExLS is a Launcher-in-a-Launcher that requires no VLS canister development. This approach maximizes the USN investment by leveraging All Up Round (AUR) and electronics development, testing, certification and associated qualification costs.

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Automated Missile Tracking will evalutate a multitude of Radio Frequency Identification (RFID) passive devices to ensure that safe implementation is possible aboard a US Navy combatant.

B. Accomplishments/Planned Program (\$ in Millions)

| | | FY 2009 | FY 2010 |
|---|------------------------------|---------|---------|
| Congressional Add: Automated Missile Tracking | | 0.000 | 0.797 |
| FY 2010 Plans: N/A | | | |
| Congressional Add: Extensible Launching Systems | | 2.992 | 0.000 |
| FY 2009 Accomplishments: N/A | | | |
| | Congressional Adds Subtotals | 2.992 | 0.797 |

| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | DATE: February 2010 |
|--|--|-------------------------------------|
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD) | R-1 ITEM NOMENCLATURE PE 0604366N: Standard Missile Improvements | PROJECT 9999: Congressional Adds |
| C. Other Program Funding Summary (\$ in Millions) N/A | | |
| D. Acquisition Strategy N/A | | |
| E. Performance Metrics Congressional Add. | | |
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