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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
|--|-------------|---------|---------|--------------|---|---------------|---------|---------|---------|---------------------|------------------|------------|
| Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD) | | | | | R-1 Program Element (Number/Name) PE 0604757N I Ship Self Def (Engage: Soft Kill/EW) | | | | | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| Total Program Element | 931.849 | 112.901 | 116.904 | 116.798 | - | 116.798 | 132.627 | 114.969 | 140.781 | 144.085 | Continuing | Continuing |
| 0954: Shipboard EW Improvement Program | 452.776 | 17.606 | 8.986 | 14.543 | - | 14.543 | 14.978 | 15.328 | 15.784 | 16.111 | Continuing | Continuing |
| 2190: NULKA Decoy | 54.575 | 4.472 | 4.651 | 1.860 | - | 1.860 | 2.032 | 2.139 | 7.099 | 7.240 | Continuing | Continuing |
| 3227: SEWIP Block 2 | 206.790 | 10.654 | 0.400 | 0.412 | - | 0.412 | 0.424 | 0.435 | 0.448 | 0.457 | Continuing | Continuing |
| 3316: Advanced Offboard EW | 47.740 | 23.521 | 43.131 | 39.881 | - | 39.881 | 48.662 | 59.502 | 79.630 | 81.646 | Continuing | Continuing |
| 3321.: SEWIP Block 3 | 169.968 | 56.635 | 59.736 | 60.102 | - | 60.102 | 66.531 | 37.565 | 37.820 | 38.631 | Continuing | Continuing |
| 3362: E-NULKA | 0.000 | 0.013 | - | - | - | - | - | - | - | - | - | 0.013 |

Program MDAP/MAIS Code: 582

A. Mission Description and Budget Item Justification

0954 - The Surface Electronic Warfare Improvement Program (SEWIP) Block 1 provides enhanced Electronic Warfare (EW) capabilities to existing and new ship combat systems to improve Anti-Ship Missile Defense (ASMD), counter-targeting and counter surveillance capabilities, as well as improved situational awareness. The SEWIP Block 1 employs an evolutionary acquisition and incremental development strategy to upgrade surface EW capabilities via a series of block upgrades to the AN/SLQ-32(V) system, and field EW improvements to counter the ASMD threat. SEWIP Block 1 will provide required EW capabilities and will incorporate technology advances as they become available to provide incremental upgrades and improvements in performance.

2190 - The Offboard Active Decoy (NULKA) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. NULKA is designed to counter a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket. Future efforts involve development of the capability for high value unit protection.

3227 - SEWIP Block 2 is developing an upgraded antenna, receiver, and combat system interface for SLQ-32. The upgrades are necessary in order to pace the threat, improving detection, accuracy, and mitigation of Electromagnetic Interference (EMI).

3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination to counter identified EW gaps (additional details classified) in response to an urgent operational need from the Fleet that has been approved by the CNO for execution. Currently no counter to the threat exists. The program consists of a Rapid Response Effort (RRE) to provide an initial, limited decoy capability to the Fleet by 2014 and a Decoy Development Effort (DDE) culminating in the delivery of a fully supported, full capability system. The RRE (FY12-FY14) consists of the evaluation and integration of commercially available decoys. The DDE (commenced in FY12) consists of the development and evaluation of a long duration, active electronic offboard decoy

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| system (payload only) integrated on an existing flight vehicle and an onboard/offboard EW coordinator fully able to counter the threat. FY14 funding was also used for fabrication, installation and testing of a Quick Reaction Capability in response to a Fleet Urgent Operational Needs Statement (UONS). | | | | | | |
| 3321 - SEWIP Block 3 is developing an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. SEWIP Block 3 is developing a common EA capability to all surface combatants (CVN, CG, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms. | | | | | | |
| The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. SEWIP Block 3 will continue to expand the integrated shipboard combat system by providing a new integrated Electronic Attack (EA) transmitter, array, and associated EA techniques. The program builds on the EW Support (ES) capability delivered by SEWIP Blocks 1 and 2. SEWIP Block 3 includes a government software development effort for a SoftKill Coordinator (SKC) to manage EA engagements. | | | | | | |
| SEWIP Block 3 includes development and initial, limited interim capability by 2014 of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) systems to support CNO Urgent Operational Needs (UON). Block 3T is the TEWM system supporting the 7th fleet UON. TEWM Speed to Fleet (STF) is the TEWM system supporting the 6th fleet UON. | | | | | | |
| 3362 - E-Nulka is an upgrade to the Nulka decoy to expand frequency coverage to counter an emerging class of Anti-Ship Missiles (ASMs) for which no active countermeasure currently exists. The Program supports the engineering development of the payload receiver, signal processor and transmitter, construction of complete payloads, integration of the completed payload with the Nulka vehicle, and subsequent technical and operational assessment. The program has been delayed until FY15 at which time the program will transfer to a classified portion of the budget due to changes in the security classification guidance. | | | | | | |
| B. Program Change Summary (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Previous President's Budget | | 114.799 | 134.564 | 97.478 | - | 97.478 |
| Current President's Budget | | 112.901 | 116.904 | 116.798 | - | 116.798 |
| Total Adjustments | | -1.898 | -17.660 | 19.320 | - | 19.320 |
| • Congressional General Reductions | | - | - | | | |
| • Congressional Directed Reductions | | - | -17.660 | | | |
| • Congressional Rescissions | | - | - | | | |
| • Congressional Adds | | - | - | | | |
| • Congressional Directed Transfers | | - | - | | | |
| • Reprogrammings | | - | - | | | |
| • SBIR/STTR Transfer | | -1.899 | - | | | |
| • Program Adjustments | | - | - | 20.000 | - | 20.000 |
| • Rate/Misc Adjustments | | 0.001 | - | -0.680 | - | -0.680 |

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| <u>Change Summary Explanation</u> FY 2014 reductions are due to SBIR/STTR transfer and rate/misc adjustments. FY 2016 changes reflects increase to accelerate SEWIP Block 3 IOC and rate/misc adjustments. | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
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| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 0954 / Shipboard EW Improvement Program | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 0954: Shipboard EW Improvement Program | 452.776 | 17.606 | 8.986 | 14.543 | - | 14.543 | 14.978 | 15.328 | 15.784 | 16.111 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

SEWIP Block 1 provides enhanced EW capabilities to existing and new ship combat systems to improve ASMD, counter-targeting and counter surveillance capabilities, as well as improved situational awareness. SEWIP Block 1 employs an evolutionary acquisition and incremental development strategy to upgrade surface EW capabilities via a series of block upgrades to the AN/SLQ-32(V) system, and field EW improvements to counter the ASMD threat. SEWIP Block 1 will provide required EW capabilities and will incorporate technology advances as they become available to provide incremental upgrades and improvements in performance.

SEWIP Block 1 is segmented into Block 1A, and Block 1B, ALQ-210 integration, and EW Rapid Capability Insertion Process (RCIP). Block 1A upgrades the AN/SLQ-32 pulse-processing computers and the display console allowing the system to more quickly identify threats and better display the information to the operator. Block 1A Electronic Surveillance Enhancements (ESE) pulse-processing computers and the Improved Control and Display (ICAD) Human System Interface (HSI) console partially open the electronic warfare system architecture to support subsequent EW capability upgrades. Block 1B adds adjunct sensors for special signal intercept, including Specific Emitter Identification (SEI), and High Gain High Sensitivity (HGHS) (Block 1B3), a critical improvement for threat correlation, situational awareness, and extending the battle space. ALQ-210 integration will develop capability to use and integrate Electronic Warfare Support (ES) controls and data between AN/SLQ-32 and the ALQ-210 on the MH60R. EW Rapid Capability Insertion Program (RCIP) identifies joint force ASM capability gaps by analyzing EW baseline and fleet requirements, prioritizes those gaps based on fleet input and critical technology maturity, and develops upgrades to the AN/SLQ-32(V) product line for fielding to address those gaps. EW RCIP will identify and select candidate technologies based on technical maturity and ability to meet the gaps within programmatic (lifecycle cost, schedule, risk) constraints.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| Title: Block 1B3 | 8.084 | 0.600 | - | - | - |
| Articles: | - | - | - | - | - |
| FY 2014 Accomplishments: Completed integration and testing of EDMs. Conducted At-Sea testing. | | | | | |
| FY 2015 Plans: Analyze and correct deficiencies. | | | | | |
| FY 2016 Base Plans: | | | | | |

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| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | |
| | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| N/A | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | |
| Title: EW RCIP | | 9.522 | 8.386 | 14.543 | - | 14.543 |
| Articles: | | - | - | - | - | - |
| FY 2014 Accomplishments: Identified EW technology shortfalls based on the current and emerging ASM threats and fleet requirements. Solicited industry, University Affiliate Research Centers, and government activities for technical solutions. Evaluated and selected RCIP technology candidates. Awarded RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. Awarded RCIP #3 contract for SEWIP training upgrades. Evaluated RCIP technologies production readiness. Successfully demonstrated and validated RCIP capabilities. | | | | | | |
| FY 2015 Plans: Perform RCIP #2 Testing and Software Certification for HGHS threat libraries. Continue RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. Initiate RCIP #4 joint contractor /government effort to integrate SEWIP capabilities into Aegis Baseline 9.C2 to address the Aegis platform gaps for automatic and semi-automatic engagements using NULKA and Chaff decoys; commence actions to address classification and tracking gaps through software changes and certification activities. Identify additional EW technology shortfalls based on the current and emerging ASM threats and fleet requirements, Solicit industry, University Affiliate Research Centers, and government activities for technical solutions; Evaluate and select RCIP technology candidates; Evaluate RCIP technologies production readiness. | | | | | | |
| FY 2016 Base Plans: Investigate and finalize EW cost saving improvement initiatives to reduce life-cycle costs to SEWIP. Deliver the RCIP #2 HGHS software/firmware upgraded loads using load and threat libraries. Complete RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. | | | | | | |

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| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 0954 / Shipboard EW Improvement Program | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Continue RCIP #4 Aegis Baseline 9.C2 integration efforts to address platform gaps for automatic and semi-automatic engagements using NULKA and Chaff decoys and to perform radar cued engagements; Initiate software development and software coding activities in accordance with approved critical design and begin system integration and testing of the technology for increased performance in the host platform; achieve technology improvements for classification and tracking gaps. Award RCIP #5 contract to address Electro Optics/Infrared (EO/IR) EW capabilities gap and supporting documentation. Identify additional EW technology shortfalls based on the current and emerging ASM threats and fleet requirements, Solicit industry, University Affiliate Research Centers, and government activities for technical solutions; Evaluate and select RCIP technology candidates; Evaluate RCIP technologies production readiness. FY 2016 OCO Plans: N/A | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | 17.606 | 8.986 | 14.543 | - | 14.543 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • 0204228N/2312: OPN BA-2 AN/SLQ-32(V) | 150.353 | 195.082 | 324.726 | - | 324.726 | 412.526 | 427.934 | 443.407 | 546.733 | Continuing | Continuing |
| • 24575N & 72827N/1C2C: OMN BA-1 AN/SLQ-32(V) | 7.527 | 6.943 | 7.113 | - | 7.113 | 8.104 | 7.989 | 8.104 | 8.265 | Continuing | Continuing |
| Remarks | | | | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | | | | |
| SEWIP will develop Block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each Block and Sub-Block will be developed and contracted in an individual yet coordinated and overlapping fashion. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| Successfully achieve Block 1B3 Milestone C / Low Rate Initial Production (LRIP) Decision Review (DR). | | | | | | | | | | | |
| Successfully complete Block 1B3 Initial Operational Test & Evaluation (IOT&E). | | | | | | | | | | | |
| Successfully achieve Block 1B3 Full Rate Production (FRP) DR. | | | | | | | | | | | |

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| <p>Successfully identify RCIP capabilities.</p> <p>Successfully identify and assess RCIP Science & Technology candidates.</p> <p>Award development contract for RCIP #1.</p> <p>Successfully demonstrate and validate RCIP capabilities.</p> <p>Award development contract for RCIP #2.</p> <p>Award development contract for RCIP #3.</p> <p>Award development contract for RCIP #4.</p> <p>Award development contract for RCIP #5.</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 0954 / Shipboard EW Improvement Program | | | | | |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Ancillary Hardware Development | Various | Various : Various | 151.420 | - | | - | | - | | - | | - | - | 151.420 | - |
| ESE Development | SS/CPFF | Northrop Grumman : Goleta, CA | 13.037 | - | | - | | - | | - | | - | - | 13.037 | - |
| ICAD Development | SS/CPFF | GD-AIS : Fairfax, VA | 11.747 | - | | - | | - | | - | | - | - | 11.747 | - |
| ESE Development (Block 1A) | SS/CPFF | Northrop Grumman : Goleta, CA | 0.471 | - | | - | | - | | - | | - | - | 0.471 | - |
| System Integrator | C/CPAF | GD-AIS : Fairfax, VA | 13.798 | - | | - | | - | | - | | - | - | 13.798 | - |
| 1B Development | SS/CPIF | GD-AIS : Fairfax, VA | 86.292 | - | | - | | - | | - | | - | - | 86.292 | - |
| Q-70 Mods | C/CPFF | LM-EAGAN : Eagan, MN | 3.491 | - | | - | | - | | - | | - | - | 3.491 | - |
| Block 2 Study/ Development | C/CPIF | BAE : Nashua, NH | 0.336 | - | | - | | - | | - | | - | - | 0.336 | - |
| ALQ210 Integration | WR | NSWC Dahlgren : Dahlgren, VA | 10.345 | - | | - | | - | | - | | - | - | 10.345 | - |
| Rapid Capability Insertion Process (RCIP) #1 | C/CPIF | Lockheed Martin : Syracuse, NY | 2.000 | - | | - | | - | | - | | - | - | 2.000 | - |
| RCIP #1 | WR | NSWC Dahlgren : Dahlgren, VA | 0.650 | - | | - | | - | | - | | - | - | 0.650 | - |
| RCIP #2 | SS/CPFF | Northrop Grumman : Goleta, CA | 2.514 | - | | - | | - | | - | | - | - | 2.514 | - |
| RCIP #2 | SS/FFP | GD-AIS : Fairfax, VA | 0.734 | - | | - | | - | | - | | - | - | 0.734 | - |
| RCIP #3 | SS/CPFF | EWA-GSI : Fairmont, WV | 0.000 | 1.978 | Mar 2014 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| RCIP #3 | WR | ONR/ACI : Washington, DC | 0.000 | 1.530 | Mar 2014 | 0.800 | Feb 2015 | 0.900 | Oct 2015 | - | | 0.900 | Continuing | Continuing | Continuing |
| RCIP #4 & #5 | TBD | TBD : TBD | 0.000 | - | | 0.209 | Mar 2015 | 6.251 | Mar 2016 | - | | 6.251 | Continuing | Continuing | Continuing |
| Subtotal | | | 296.835 | 3.508 | | 1.009 | | 7.151 | | - | | 7.151 | - | - | - |
| Remarks Product Development for RCIP #4 and #5 will be competitively awarded. | | | | | | | | | | | | | | | |

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| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 1 Integrated Logistics Support | WR | NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington, DC; Laurel,MD | 9.912 | - | | - | | - | | - | | - | - | 9.912 | - |
| Block 1 Integrated Logistics Support | WR | NSWC Crane : Crane, IN | 2.770 | 0.648 | Nov 2013 | - | | - | | - | | - | - | 3.418 | - |
| Block 1 Integrated Logistics Support | WR | NSWC DD : Dahlgren, VA | 0.293 | - | | - | | - | | - | | - | - | 0.293 | - |
| Block 1 Government Engineering Support | WR | NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington, DC; Laurel,MD | 34.783 | - | | - | | - | | - | | - | - | 34.783 | - |
| Block 1 Government Engineering Support | WR | NSWC Dahlgren : Dahlgren, VA | 2.449 | 0.999 | Nov 2013 | 1.169 | Oct 2014 | 1.502 | Nov 2015 | - | | 1.502 | Continuing | Continuing | Continuing |
| Block 1 Government Engineering Support | WR | NSWC Crane : Crane, IN | 2.577 | 0.650 | Nov 2013 | 2.424 | Nov 2014 | 1.950 | Nov 2015 | - | | 1.950 | Continuing | Continuing | Continuing |
| Block 1 Government Engineering Support | WR | NRL : Washington, DC | 1.483 | 0.650 | Nov 2013 | 0.156 | Nov 2014 | 0.950 | Nov 2015 | - | | 0.950 | Continuing | Continuing | Continuing |
| Block 1 Government Engineering Support | SS/CPFF | APL : Laurel, MD | 1.034 | 0.650 | Nov 2013 | 0.859 | Feb 2015 | 0.500 | Nov 2015 | - | | 0.500 | - | 3.043 | - |
| Block 1 SIPRNET Access | WR | ARL : Adelphi, MD | 0.092 | - | | 0.086 | Feb 2015 | - | | - | | - | - | 0.178 | - |
| Block 1 Government Engineering Support | WR | SWRMC : San Diego, CA | 0.000 | - | | 0.300 | Feb 2015 | 0.275 | Nov 2015 | - | | 0.275 | - | 0.575 | - |
| Block 2 Integrated Logistics Support | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 0.540 | - | | - | | - | | - | | - | - | 0.540 | - |
| Block 2 Government Engineering Support | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 2.496 | - | | - | | - | | - | | - | - | 2.496 | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
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| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 1B3 Install on test ship | WR | NSSA Norfolk : Norfolk, VA | 0.000 | 0.857 | Feb 2014 | - | | - | | - | | - | - | 0.857 | - |
| Block 1B3 Integration | WR | Lockheed Martin : Syracuse, NY | 0.000 | 1.000 | Feb 2014 | - | | - | | - | | - | - | 1.000 | - |
| Subtotal | | | 58.429 | 5.454 | | 4.994 | | 5.177 | | - | | 5.177 | - | - | - |
| Remarks The \$3.662M increase to Block I Government Engineering support since PB 15 is to perform engineering assessments to ensure the scalability of the SEWIP system on additional platforms, to support test planning and execution, and to execute software certification events. | | | | | | | | | | | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 1 Integration and Test | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 0.853 | - | | - | | - | | - | | - | - | 0.853 | - |
| Developmental Test & Evaluation | Various | Various : Various | 8.958 | - | | - | | - | | - | | - | - | 8.958 | - |
| Block 1A Test Planning/ T&E Events | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 11.036 | - | | - | | - | | - | | - | - | 11.036 | - |
| Block 1B Test Planning/ T&E Events | WR | NSWC Crane, DD, NRL, NAVAIR, OPTEVFOR, NSWC PHD : Crane, IN; Dahlgren, VA; Washington, DC; MD; CA | 9.567 | - | | - | | - | | - | | - | - | 9.567 | - |
| Block 1B Test Planning/ T&E Events | WR | NSWC Dahlgren : Dahlgren, VA | 1.338 | 1.893 | Nov 2013 | - | | - | | - | | - | - | 3.231 | - |

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| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 1B Test Planning/T&E Events | WR | NSWC Crane : Crane, IN | 1.911 | 1.115 | Nov 2013 | - | | - | | - | | - | - | 3.026 | - |
| Block 1B Test Planning/T&E Events | WR | NRL : Washington, DC | 3.321 | 2.044 | Nov 2013 | - | | - | | - | | - | - | 5.365 | - |
| Block 1B Test Planning/T&E Events | WR | OPTEVFOR : Norfolk, VA | 0.269 | 0.107 | Nov 2013 | 0.045 | Nov 2014 | - | | - | | - | - | 0.421 | - |
| Block 1B Test Planning/T&E Events | WR | JITC : Indian Head, MD | 0.116 | 0.172 | Nov 2013 | - | | - | | - | | - | - | 0.288 | - |
| (V)4 ESE Test Planning/T&E Events | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 0.686 | - | | - | | - | | - | | - | - | 0.686 | - |
| (V)4 ESE Test Planning/T&E Events | WR | NSWC Dahlgren : Dahlgren, VA | 0.609 | - | | - | | - | | - | | - | - | 0.609 | - |
| (V)4 ESE Test Planning/T&E Events | WR | NSWC Crane : Crane, IN | 1.153 | - | | - | | - | | - | | - | - | 1.153 | - |
| (V)4 ESE Test Planning/T&E Events | WR | NRL : Washington, DC | 1.808 | - | | - | | - | | - | | - | - | 1.808 | - |
| (V)4 ESE Test Planning/T&E Events | WR | OPTEVFOR : Norfolk, VA | 0.192 | - | | - | | - | | - | | - | - | 0.192 | - |
| RCIP Test Planning/T&E Events | WR | NSWC Dahlgren : Dahlgren, VA | 0.593 | 0.459 | Nov 2013 | 0.350 | Oct 2014 | 0.400 | Nov 2015 | - | | 0.400 | Continuing | Continuing | Continuing |
| RCIP Test Planning/T&E Events | WR | NSWC Crane : Crane, IN | 0.120 | 0.426 | Nov 2013 | 0.643 | Nov 2014 | 0.400 | Nov 2015 | - | | 0.400 | Continuing | Continuing | Continuing |
| RCIP Test Planning/T&E Events | WR | NRL : Washington, DC | 0.057 | 0.484 | Nov 2013 | 0.679 | Nov 2014 | 0.100 | Nov 2015 | - | | 0.100 | Continuing | Continuing | Continuing |
| RCIP Test Planning/T&E Events | SS/CPFF | APL : Laurel, MD | 0.000 | - | | - | | 0.100 | Nov 2015 | - | | 0.100 | Continuing | Continuing | Continuing |
| Block 2 Test Planning/T&E Events | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 0.941 | - | | - | | - | | - | | - | - | 0.941 | - |
| Subtotal | | | 43.528 | 6.700 | | 1.717 | | 1.000 | | - | | 1.000 | - | - | - |

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|--|------------------------|---|-------------|---------|------------|---|------------|-----------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 0954 / Shipboard EW Improvement Program | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Remarks | | | | | | | | | | | | | | | |
| Development Test & Evaluation included several activities from the original development of the SLQ-32 system. This line has been left on the exhibit to track Prior year costs of this PU. | | | | | | | | | | | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 1 Program Management | C/CPIF | SPA (SEAPORT) : Washington, D.C. | 31.748 | 0.954 | Nov 2013 | 0.113 | Feb 2015 | 1.175 | Nov 2015 | - | | 1.175 | Continuing | Continuing | Continuing |
| Block 1 Program Management Support | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC | 17.310 | - | | - | | - | | - | | - | - | 17.310 | - |
| Block 1 Program Management Support | WR | NSWC Crane : Crane, IN | 0.782 | 0.273 | Nov 2013 | 0.581 | Nov 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Block 1 Program Management Support | WR | NSWC Dahlgren : Dahlgren, VA | 0.995 | 0.241 | Nov 2013 | 0.426 | Oct 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Block 1 Program Management Support | WR | NRL : Washington, DC | 0.770 | 0.207 | Nov 2013 | - | | - | | - | | - | - | 0.977 | - |
| Block 1 Program Management Support | SS/CPFF | APL : Laurel, MD | 0.212 | 0.219 | Nov 2013 | 0.096 | Feb 2015 | - | | - | | - | Continuing | Continuing | Continuing |
| Block 1 Travel | WR | NAVSEA Program Office Travel : Washington, DC | 1.145 | 0.050 | Nov 2013 | 0.050 | Oct 2014 | 0.040 | Nov 2015 | - | | 0.040 | Continuing | Continuing | Continuing |
| Block 1 DoD Acquisition Workforce Fund | Various | Various : Various | 0.126 | - | | - | | - | | - | | - | - | 0.126 | - |
| Block 2 Program Management Support | C/FFP | AT&T Gov't Solutions (SEAPORT) : Washington, DC | 0.023 | - | | - | | - | | - | | - | - | 0.023 | - |
| Block 2 Program Management Support | WR | NSWC Crane, DD, NRL : Crane, | 0.823 | - | | - | | - | | - | | - | - | 0.823 | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | | | | Project (Number/Name) 0954 / <i>Shipboard EW Improvement Program</i> | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| | | IN; Dahlgren, VA; Washington, DC | | | | | | | | | | | | | |
| Block 2 Travel | WR | NAVSEA Program Office Travel : Washington, DC | 0.050 | - | | - | | - | | - | | - | - | 0.050 | - |
| Subtotal | | | 53.984 | 1.944 | | 1.266 | | 1.215 | | - | | 1.215 | - | - | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 452.776 | 17.606 | | 8.986 | | 14.543 | | - | | 14.543 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)

Project (Number/Name)

0954 / Shipboard EW Improvement Program

| Fiscal Year | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|------------------------|--|---|---|---|--------------|---|---------------------|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones | | | | | | △ | Block 1B3 FRP DR | | | | | | | | | | | | | | | | | | | | | |
| Development | EW Rapid Capability Insertion Process (RCIP) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test and Evaluation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestones | 1B3 Integration & Test | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational Test | | | | ▲ | 1B3 TECHEVAL | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ▲ | 1B3 IOT&E | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 0954 / <i>Shipboard EW Improvement Program</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 0954</i> | | | | |
| EW Rapid Capability Insertion Process (RCIP) | 1 | 2014 | 4 | 2020 |
| 1B3 Integration & Test | 1 | 2014 | 2 | 2014 |
| Block 1B3 TECHEVAL | 4 | 2014 | 4 | 2014 |
| Block 1B3 IOT&E | 4 | 2014 | 4 | 2014 |
| Block 1B3 FRP DR | 2 | 2015 | 2 | 2015 |

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|--|-------------|---------|---------|--------------|---|---------------|---------|---------|---|---------------------|------------------|---------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 2190 / NULKA Decoy | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 2190: NULKA Decoy | 54.575 | 4.472 | 4.651 | 1.860 | - | 1.860 | 2.032 | 2.139 | 7.099 | 7.240 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| The Offboard Active Decoy (NULKA) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. NULKA is designed to counter a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket. Future efforts involve development of the capability for high value unit protection. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Title: NULKA Decoy Subsystem Articles: | | | | | | | | 2.405 | 2.523 | 1.860 | - | 1.860 |
| | | | | | | | | - | - | - | - | - |
| FY 2014 Accomplishments: Conducted NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, Fly Out Tactics and open architecture transition. | | | | | | | | | | | | |
| FY 2015 Plans: Continue NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, Fly Out Tactics and open architecture transition. | | | | | | | | | | | | |
| FY 2016 Base Plans: Continue NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, Fly Out Tactics and open architecture transition. | | | | | | | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | | | | | | | |
| Title: NULKA Software Articles: | | | | | | | | 2.067 | - | - | - | - |
| | | | | | | | | - | - | - | - | - |
| FY 2014 Accomplishments: Conducted NULKA software Product Line Architecture (PLA) Demonstration. | | | | | | | | | | | | |
| FY 2015 Plans: | | | | | | | | | | | | |

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|--|----------------|----------------|-------------------------|--|--------------------------|-------------------------|------------------------|--|----------------|-----------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 2190 / NULKA Decoy | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | | | | |
| | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | | | |
| N/A | | | | | | | | | | | |
| FY 2016 Base Plans: N/A | | | | | | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | | | | | | |
| Title: CVN AT-SEA TEST | | | | Articles: | - | 2.128 | - | - | - | - | |
| | | | | | - | - | - | - | - | - | |
| FY 2014 Accomplishments: N/A | | | | | | | | | | | |
| FY 2015 Plans: Conduct At-Sea test of NULKA CVN capabilities. | | | | | | | | | | | |
| FY 2016 Base Plans: N/A | | | | | | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | 4.472 | 4.651 | 1.860 | - | 1.860 | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • OPN/5530: Anti-Ship Missile Decoy System | 62.361 | - | - | - | - | - | - | - | - | - | 619.550 |
| • OPN/5231: Ship Missile Support Equipment | - | 35.756 | 57.791 | - | 57.791 | 70.392 | 78.682 | 61.003 | 62.255 | Continuing | Continuing |
| • OMN/12CR0 (1C2C): Nulka | 5.525 | 5.177 | 7.323 | - | 7.323 | 6.154 | 6.073 | 6.308 | 6.432 | Continuing | Continuing |
| Remarks Due to DON directed OPN Line Item (LI) Consolidation commencing in FY15, LI 5530 was consolidated under LI 5231 in FY15 and in the outyears. | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 2190 / NULKA Decoy |
| D. Acquisition Strategy NULKA is a joint cooperative program between United States and Australia in full rate production. | | |
| E. Performance Metrics Successfully complete first-of-class testing of MK 53 DLS upgrade for CVN. Successfully complete Element Certification Decoy Launch Processor (DLP) software version 6_5 for the CVN 68 ship class. | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--------------------------------|-------------|---------|------------|---|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 2190 / NULKA Decoy | | | | | |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Primary Hardware Development | WR | Lockheed Martin : Sippican, MA | 6.692 | - | | - | | - | | - | | - | - | 6.692 | - |
| Primary Hardware Development | MIPR | BAE Systems : Australia | 7.382 | - | | - | | - | | - | | - | - | 7.382 | - |
| Systems Engineering | WR | NRL : Washington, DC | 17.245 | 0.912 | Nov 2013 | 0.938 | Nov 2014 | 0.799 | Nov 2015 | - | | 0.799 | Continuing | Continuing | Continuing |
| Systems Engineering | WR | NWAD : China Lake, CA | 0.120 | - | | - | | - | | - | | - | - | 0.120 | - |
| MK 53 System Eng Changes | C/FFP | Sechan : PA | 0.150 | - | | - | | - | | - | | - | - | 0.150 | - |
| Systems Engineering | WR | NSWC Dahlgren : Dahlgren, VA | 7.106 | 1.201 | Nov 2013 | 0.900 | Nov 2014 | 0.859 | Nov 2015 | - | | 0.859 | Continuing | Continuing | Continuing |
| Systems Engineering | WR | NSMA : VA | 0.360 | - | | - | | - | | - | | - | - | 0.360 | - |
| Systems Engineering | WR | NSWC Crane : IN | 5.856 | 0.205 | Nov 2013 | 0.270 | Nov 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 44.911 | 2.318 | | 2.108 | | 1.658 | | - | | 1.658 | - | - | - |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Development Support | WR | NRL : Washington, DC | 1.314 | 0.200 | Nov 2013 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Software Development | WR | NSWC Dahlgren : Dahlgren, VA | 2.497 | 0.411 | Nov 2013 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Software Development | MIPR | BAE Systems : Australia | 0.000 | 1.009 | Feb 2014 | - | | - | | - | | - | - | 1.009 | - |
| Subtotal | | | 3.811 | 1.620 | | - | | - | | - | | - | - | - | - |
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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--|-------------|---------|------------|---|------------|-----------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 2190 / NULKA Decoy | | | | | |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 Dahlgren : Dahlgren, VA | 0.700 | - | | 0.575 | Nov 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Developmental Test & Evaluation | WR | NRL : Washington, DC | 1.181 | - | | 0.500 | Nov 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Test Assets | WR | NRL : Washington, DC | 0.701 | - | | 0.803 | Nov 2014 | - | | - | | - | Continuing | Continuing | Continuing |
| Test Support | WR | OPTEVFOR : Norfolk, VA | 0.050 | - | | 0.125 | Feb 2015 | - | | - | | - | Continuing | Continuing | Continuing |
| Test Support | WR | BAE Systems : Australia | 0.050 | - | | 0.125 | Feb 2015 | - | | - | | - | Continuing | Continuing | Continuing |
| Subtotal | | | 2.682 | - | | 2.128 | | - | | - | | - | - | - | - |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Program Management Support | C/CPIF | SPA (SEAPORT) : Washington, DC | 1.301 | 0.393 | Jan 2014 | 0.320 | Feb 2015 | 0.100 | Nov 2015 | - | | 0.100 | Continuing | Continuing | Continuing |
| Program Management Support | C/FFP | AT&T Gov't Solutions (SEAPORT): : Washington, DC | 1.147 | - | | - | | - | | - | | - | - | 1.147 | - |
| Program Management Support | C/CPIF | Gryphon Technology (SEAPORT) : Washington, DC | 0.113 | 0.113 | Jan 2014 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Program Management Support | C/CPIF | ICI : Washington, DC | 0.000 | - | | 0.060 | Feb 2015 | 0.087 | Nov 2015 | - | | 0.087 | - | 0.147 | - |
| Travel | WR | NAVSEA Program Office Travel : Washington, DC | 0.595 | 0.028 | Nov 2013 | 0.035 | Feb 2015 | 0.015 | Nov 2015 | - | | 0.015 | Continuing | Continuing | Continuing |
| DoD Acquisition Workforce Fund (DAWDF) | Various | Various : Various | 0.015 | - | | - | | - | | - | | - | - | 0.015 | - |
| Subtotal | | | 3.171 | 0.534 | | 0.415 | | 0.202 | | - | | 0.202 | - | - | - |

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|---|--------------------|----------------|----------------|-------|--|-------|--------------------|---|----------------------|--|-------------------|---------------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | | Project (Number/Name) 2190 / NULKA Decoy | | |
| | Prior Years | FY 2014 | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | 54.575 | 4.472 | | 4.651 | | 1.860 | | - | | 1.860 | - | - |
| Remarks | | | | | | | | | | | | |

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy **Date:** February 2015

| | | |
|--|--|--|
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 2190 / NULKA Decoy |
|--|--|--|

| Fiscal Year | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|------------------------------|------------------------------------|---|---|---|-------------------|-----------------------------|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| System Development | SOFTWARE PLA INTERFACE DEVELOPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | △ | SOFTWARE PLA DEMO | | | | | | | | | | | | | | | | | | | | | | | |
| Production Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test & Evaluation Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Test | | | | | △ | LHA 6 Install Certification | | | | | | | | | | | | | | | | | | | | | | |
| Operational Test | | | | | △ | CVN Class DT | | | | | | | | | | | | | | | | | | | | | | |

PLA - Product Line Architecture

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 2190 / <i>NULKA Decoy</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|------------------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 2190</i> | | | | |
| SOFTWARE PLA INTERFACE DEVELOPMENT | 1 | 2014 | 4 | 2014 |
| SOFTWARE PLA DEMO | 4 | 2014 | 4 | 2014 |
| LHA 6 INSTALL CERTIFICATION | 1 | 2015 | 1 | 2015 |
| CVN CLASS DT | 2 | 2015 | 2 | 2015 |

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|--|-------------|---------|---------|--------------|---|---------------|---------|---------|---|---------------------|------------------|---------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 3227: SEWIP Block 2 | 206.790 | 10.654 | 0.400 | 0.412 | - | 0.412 | 0.424 | 0.435 | 0.448 | 0.457 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| The SEWIP Block 2 program is developing an upgraded antenna, receiver, and combat system interface for SLQ-32. The upgrades are necessary in order to pace the threat, improving detection, accuracy, and mitigation of EMI. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Title: SEWIP Block 2 Articles: FY 2014 Accomplishments: Conducted At-Sea testing. Analyzed and corrected deficiencies. Commenced Software Build 6 for SEWIP Block 2 integration to Aegis B/L 9.2C with Radar Cued Engagement capability. FY 2015 Plans: Analyze and correct deficiencies. Continue Software Build 6 for SEWIP Block 2 integration to Aegis B/L 9.2C with Radar Cued Engagement capability. FY 2016 Base Plans: Continue Software Build 6 for SEWIP Block 2 integration to Aegis B/L 9.2C with Radar Cued Engagement capability. FY 2016 OCO Plans: N/A | | | | | | | | 10.654 | 0.400 | 0.412 | - | 0.412 |
| | | | | | | | | - | - | - | - | - |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | 10.654 | 0.400 | 0.412 | - | 0.412 |
| | | | | | | | | | | | | |

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|--|----------------|----------------|-------------------------|--|--------------------------|----------------|----------------|--|----------------|-----------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • 0204228N/2312: OPN BA-2 AN/SLQ-32(V) | 150.353 | 195.082 | 324.726 | - | 324.726 | 412.526 | 427.934 | 443.407 | 546.733 | Continuing | Continuing |
| • 0204575N/1C2C: OMN BA-1 AN/SLQ-32(V)6 | 2.860 | 5.440 | 6.373 | - | 6.373 | 12.245 | 12.083 | 12.357 | 12.603 | Continuing | Continuing |
| Remarks | | | | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | | | | |
| SEWIP will develop Block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each Block and Sub-Block will be developed and contracted in an individual yet coordinated and overlapping fashion. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| Successfully achieve Block 2 MS C / LRIP DR. | | | | | | | | | | | |
| Successfully complete Block 2 Initial Operational Test & Evaluation (IOT&E). | | | | | | | | | | | |
| Successfully achieve Block 2 Full Rate Production (FRP) DR. | | | | | | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|---|-------------|---------|------------|---|------------|-----------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | | | |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 2 E&MD | C/CPIF | Lockheed Martin : Syracuse, NY | 102.948 | 5.590 | Dec 2013 | - | | - | | - | | - | - | 108.538 | Continuing |
| Block 2 Preliminary Development | C/CPIF | Lockheed Martin : Syracuse, NY | 17.211 | - | | - | | - | | - | | - | - | 17.211 | - |
| Block 2 SEWTT Development | SS/CPFF | EWA-GSI : Fairmont, WV | 1.200 | - | | - | | - | | - | | - | - | 1.200 | Continuing |
| Block 2 SEWTT Development | WR | NSWC Crane : Crane, IN | 0.047 | - | | - | | - | | - | | - | - | 0.047 | - |
| Subtotal | | | 121.406 | 5.590 | | - | | - | | - | | - | - | 126.996 | - |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 2 Integrated Logistics Support | WR | NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD | 0.769 | - | | - | | - | | - | | - | - | 0.769 | - |
| Block 2 Integrated Logistics Support | WR | NSWC Crane : Crane, IN | 4.197 | 0.049 | Dec 2013 | - | | - | | - | | - | - | 4.246 | Continuing |
| Block 2 Government Engineering Support | WR | NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD | 12.214 | - | | - | | - | | - | | - | - | 12.214 | - |
| Block 2 Government Engineering Support | WR | NSWC Dahlgren : Dahlgren, VA | 11.177 | 0.609 | Dec 2013 | 0.157 | Oct 2014 | 0.200 | Nov 2015 | - | | 0.200 | Continuing | Continuing | Continuing |
| Block 2 Government Engineering Support | WR | NSWC Crane : Crane, IN | 6.258 | 0.114 | Dec 2013 | - | | - | | - | | - | - | 6.372 | Continuing |
| Block 2 Government Engineering Support | WR | NRL : Washington, DC | 3.975 | 0.339 | Jan 2014 | - | | - | | - | | - | - | 4.314 | Continuing |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|---|-------------|---------|------------|---|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 2 Government Engineering Support | SS/CPFF | APL : Laurel, MD | 5.348 | - | | - | | - | | - | | - | - | 5.348 | Continuing |
| Block 2 - Combat System Integration | SS/CPFF | Raytheon : San Diego, CA | 0.250 | - | | - | | - | | - | | - | - | 0.250 | - |
| Block 2 - MSMO Cost | WR | NSSA Norfolk : Norfolk, VA | 0.000 | 1.431 | Feb 2014 | - | | - | | - | | - | - | 1.431 | - |
| Block 2 - Mast Study | WR | SUPSHIP : Bath, ME | 0.000 | 0.033 | Feb 2014 | - | | - | | - | | - | - | 0.033 | - |
| Block 2 - Fleet Support | WR | NSSA SURFLANT : Norfolk, VA | 0.000 | 0.030 | Nov 2013 | - | | - | | - | | - | - | 0.030 | - |
| Block 2 - Range Cost | WR | NUWC NEWPORT : Newport, RI | 0.000 | 0.018 | Jul 2014 | - | | - | | - | | - | - | 0.018 | - |
| Subtotal | | | 44.188 | 2.623 | | 0.157 | | 0.200 | | - | | 0.200 | - | - | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 2 Test Planning/T&E Events | WR | NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington DC; | 1.582 | - | | - | | - | | - | | - | - | 1.582 | - |
| Block 2 Test Planning/T&E Events | WR | NSWC Crane : Crane, IN | 4.709 | 0.063 | Dec 2013 | - | | - | | - | | - | - | 4.772 | Continuing |
| Block 2 Test Planning/T&E Events | WR | NSWC Dahlgren : Dahlgren, VA | 2.790 | 1.304 | Dec 2013 | 0.210 | Oct 2014 | 0.195 | Nov 2015 | - | | 0.195 | Continuing | Continuing | Continuing |
| Block 2 Test Planning/T&E Events | WR | NRL : Washington, DC | 4.433 | 0.973 | Jan 2014 | - | | - | | - | | - | - | 5.406 | Continuing |
| Block 2 Test Planning/T&E Events | WR | Surface Combat Systems Center : Wallops Island, VA | 0.662 | - | | - | | - | | - | | - | - | 0.662 | Continuing |
| Subtotal | | | 14.176 | 2.340 | | 0.210 | | 0.195 | | - | | 0.195 | - | - | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--|-------------|---------|------------|---|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 2 Program Management Support | C/CPIF | SPA (SEAPORT) : Washington, DC | 5.545 | - | | - | | - | | - | | - | - | 5.545 | Continuing |
| Block 2 Program Management Support | WR | NSWC Crane, DD, PHD, NRL : Crane, IN; Dahlgren, VA; PHD CA; Washington DC; | 15.069 | - | | - | | - | | - | | - | - | 15.069 | - |
| Block 2 Program Management Support | WR | NSWC Dahlgren : Dahlgren, VA | 1.596 | - | | - | | - | | - | | - | - | 1.596 | - |
| Block 2 Program Management Support | WR | NSWC Crane : Crane, IN | 1.331 | - | | - | | - | | - | | - | - | 1.331 | - |
| Block 2 Program Management Support | WR | NRL : Washington, DC | 0.561 | 0.066 | Jan 2014 | - | | - | | - | | - | - | 0.627 | - |
| Block 2 Program Management Support | MIPR | Navy Post GraduateSchool : Monterey, CA | 0.174 | - | | - | | - | | - | | - | - | 0.174 | - |
| Block 2 Program Management Support | SS/CPFF | APL : Laurel, MD | 1.962 | - | | - | | - | | - | | - | - | 1.962 | - |
| Block 2 Program Management | WR | NSWC PHD : Port Hueneme, CA | 0.091 | - | | - | | - | | - | | - | - | 0.091 | - |
| Block 2 Travel | WR | NAVSEA Program Office Travel : Washington, DC | 0.554 | 0.035 | Feb 2014 | 0.033 | Oct 2014 | 0.017 | Nov 2015 | - | | 0.017 | Continuing | Continuing | Continuing |
| Block 2 DoD Acquisition Workforce Fund | Various | Various : Various | 0.137 | - | | - | | - | | - | | - | - | 0.137 | - |
| Subtotal | | | 27.020 | 0.101 | | 0.033 | | 0.017 | | - | | 0.017 | - | - | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 206.790 | 10.654 | | 0.400 | | 0.412 | | - | | 0.412 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy | | | | | | | | | | | | | | | | | | | | Date: February 2015 | | | | | | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | | | | | Project (Number/Name) 3227 / SEWIP Block 2 | | | | | | | | |
| | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
| Fiscal Year | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones | | | | | | △ | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Block 2 FRP DR | | | | | | | | | | | | | | | | | | | | | | |
| Block 2 Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Block 2 Test and Evaluation Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 3227 / <i>SEWIP Block 2</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|-------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 3227</i> | | | | |
| Block 2 Gov't LBT | 1 | 2014 | 2 | 2014 |
| Block 2 TECHEVAL | 4 | 2014 | 4 | 2014 |
| Block 2 IOT&E | 4 | 2014 | 4 | 2014 |
| Block 2 FRP DR | 2 | 2015 | 2 | 2015 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3316 / Advanced Offboard EW | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 3316: Advanced Offboard EW | 47.740 | 23.521 | 43.131 | 39.881 | - | 39.881 | 48.662 | 59.502 | 79.630 | 81.646 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| 3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination to counter identified EW gaps (additional details classified) in response to an urgent operational need from the Fleet that has been approved by the CNO for execution. Currently no counter to the threat exists. The program consists of a Rapid Response Effort (RRE) to provide an initial, limited decoy capability to the Fleet by 2014 and a Decoy Development Effort (DDE) culminating in the delivery of a fully supported, full capability system. The RRE (FY12-FY14) consists of the evaluation and integration of commercially available decoys. The DDE (commenced in FY12) consists of the development and evaluation of a long duration, active electronic offboard decoy system (payload only) integrated on an existing flight vehicle and an onboard/offboard EW coordinator fully able to counter the threat. FY14 funding was also used for fabrication, installation and testing of a Quick Reaction Capability in response to a Fleet Urgent Operational Needs Statement (UONS). | | | | | | | | | | | | |
| In FY15 and FY16 AOEW includes a government software development effort to integrate AOEW into the Softkill Coordinator (SKC) to gain maximum effectiveness from the AOEW decoy through coordination with on board systems. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Title: AOEW - Decoy Development Effort (DDE) Articles: FY 2014 Accomplishments: - Continued development of concepts of operation - Continued interoperability analysis - Continued acquisition documentation development FY 2015 Plans: - Complete development of concepts of operation - Continue interoperability analysis - Commence tactics analysis and development - Continue acquisition documentation development - Award competitive development contract for decoy Preliminary Design/Engineering & Manufacturing Development (E&MD) - Commence AOEW SKC development | | | | | | | | 8.822 | 42.381 | 39.881 | - | 39.881 |
| | | | | | | | | - | - | - | - | - |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | Project (Number/Name) 3316 / Advanced Offboard EW | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| - Commence AOEW integration FY 2016 Base Plans: - Continue interoperability analysis - Continue tactics analysis and development - Complete AOEW Preliminary Design - Continue AOEW SKC development - Conduct Preliminary Design Review FY 2016 OCO Plans: N/A | | | | | | |
| Title: EW Urgent Operational Needs (UONs) Articles: | | 11.788 - | - - | - - | - - | - - |
| FY 2014 Accomplishments: - Completed installation of MK-59 decoy in support of EW UONs - Designed, developed, fabricated, integrated, demonstrated, and delivered quick reaction EA pod for integration with SH-60B in support of EW UONs FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A | | | | | | |
| Title: AOEW - Rapid Response Effort (RRE) Articles: | | 2.911 - | 0.750 - | - - | - - | - - |
| FY 2014 Accomplishments: - Developed conops and tactics - Continued RRE testing FY 2015 Plans: | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | Date: February 2015 | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | | Project (Number/Name) 3316 / <i>Advanced Offboard EW</i> | |

| | | | | | |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| - Complete RRE testing | | | | | |
| FY 2016 Base Plans: N/A | | | | | |
| FY 2016 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | 23.521 | 43.131 | 39.881 | - | 39.881 |

| | | | | | | | | | | | |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| <u>Line Item</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016 Base</u> | <u>FY 2016 OCO</u> | <u>FY 2016 Total</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>Cost To Complete</u> | <u>Total Cost</u> |
| • OPN/5530: <i>Anti-Ship Missile Decoy System</i> | 62.361 | - | - | - | - | - | - | - | - | - | 158.739 |
| • OPN/5231: <i>Ship Missile Support Equipment</i> | - | 35.756 | 57.791 | - | 57.791 | 70.392 | 78.682 | 61.003 | 62.255 | Continuing | Continuing |
| Remarks | | | | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | | | | |
| The AOEW DDE decoy will be competitively contracted and developed, and builds on technologies and concepts currently in development by ONR. For RRE, commercially available decoys were procured for evaluation, integration and testing. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| For DDE: | | | | | | | | | | | |
| Complete Analysis of Alternatives. | | | | | | | | | | | |
| Complete systems requirements definition. | | | | | | | | | | | |
| Achieve Milestone (MS) B | | | | | | | | | | | |
| Award Preliminary Design/E&MD contract. | | | | | | | | | | | |
| Conduct System Requirements Review (SRR) | | | | | | | | | | | |
| Conduct System Functional Review (SFR) | | | | | | | | | | | |
| Conduct Preliminary Design Review (PDR) | | | | | | | | | | | |
| Conduct Critical Design Review (CDR) | | | | | | | | | | | |
| Confirm Operational Affectiveness (OA) | | | | | | | | | | | |
| Achieve Milestone (MS) C | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 3316 / Advanced Offboard EW |
| Conduct Initial Operational Test and Evaluation (IOT&E) | | |
| For RRE: Complete evaluation and integration. Complete testing of commercially available decoys. | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--------------------------------|-------------|---------|------------|---|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3316 / Advanced Offboard EW | | | | | |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Analysis of Alternatives | WR | CNA : Alexandria, VA | 1.300 | - | | - | | - | | - | | - | - | 1.300 | Continuing |
| Concept Analysis and Integration Assessment | SS/CPFF | APL : Laurel, MD | 2.750 | 1.835 | Dec 2013 | 2.623 | Feb 2015 | 1.000 | Nov 2015 | - | | 1.000 | Continuing | Continuing | Continuing |
| Concept Analysis and Technology Studies | WR | MIT-LL : Boston, MA | 1.000 | 0.607 | Nov 2013 | 0.973 | Feb 2015 | 0.500 | Nov 2015 | - | | 0.500 | Continuing | Continuing | Continuing |
| Concept Development and Technology Studies | WR | NRL : Washington, D.C. | 8.097 | 6.117 | Dec 2013 | 4.144 | Oct 2014 | 2.483 | Nov 2015 | - | | 2.483 | Continuing | Continuing | Continuing |
| Technology Development and Systems Requirements | WR | NSWC Dahlgren : Dahlgren, VA | 1.739 | 0.088 | Dec 2013 | 7.303 | Oct 2014 | 6.260 | Nov 2015 | - | | 6.260 | Continuing | Continuing | Continuing |
| Systems Requirements and Integration Studies | WR | NSWC Crane : Crane, IN | 2.233 | - | | - | | - | | - | | - | - | 2.233 | Continuing |
| Concept Development and Technology Studies | WR | NAVAIR : Patuxent River, MD | 0.635 | 0.105 | Dec 2013 | 2.562 | Feb 2015 | 2.039 | Nov 2015 | - | | 2.039 | Continuing | Continuing | Continuing |
| RRE Hardware Development | C/CPIF | Airborne Systems : UK | 7.400 | - | | - | | - | | - | | - | - | 7.400 | Continuing |
| DDE Preliminary Design | C/CPIF | TBD : Not specified | 0.000 | - | | 10.600 | Jul 2015 | 16.817 | Nov 2015 | - | | 16.817 | Continuing | Continuing | Continuing |
| Ship Integration | TBD | TBD : Not specified | 0.000 | - | | 2.000 | May 2015 | 1.200 | Nov 2015 | - | | 1.200 | - | 3.200 | - |
| Subtotal | | | 25.154 | 8.752 | | 30.205 | | 30.299 | | - | | 30.299 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |
| DDE Preliminary Design contract will be competed and contractor name and location will be added upon contract award in FY15. DDE Preliminary Design growth between FY15 and FY16 attributable to the FY15 budget reflecting a partial year funding for this effort while FY16 provides a full year of efforts. | | | | | | | | | | | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Government Development Support | WR | NRL : Washington, DC | 4.797 | 0.930 | Dec 2013 | 1.237 | Oct 2014 | 1.157 | Nov 2015 | - | | 1.157 | Continuing | Continuing | Continuing |
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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|---|-------------|---------|------------|---|------------|-----------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3316 / Advanced Offboard EW | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Government Development and Engineering Support | WR | NSWC Dahlgren : Dahlgren, VA | 2.521 | 1.567 | Dec 2013 | 2.456 | Oct 2014 | 2.037 | Nov 2015 | - | | 2.037 | Continuing | Continuing | Continuing |
| Government Engineering Support | WR | NSWC Crane : Crane, IN | 3.438 | 1.634 | Dec 2013 | 2.000 | Oct 2014 | 1.664 | Nov 2015 | - | | 1.664 | Continuing | Continuing | Continuing |
| Government Engineering Support | WR | NSWC Carderock : Bethesda, MD | 0.265 | 0.230 | Nov 2013 | 0.230 | Feb 2015 | 0.150 | Nov 2015 | - | | 0.150 | Continuing | Continuing | Continuing |
| Systems Engineering Support | SS/CPFF | APL : Laurel, MD | 0.351 | 0.150 | Dec 2013 | 0.250 | Feb 2015 | 0.500 | Nov 2015 | - | | 0.500 | Continuing | Continuing | Continuing |
| Government Development Support | WR | NAVAIR : Patuxent River, MD | 0.000 | 1.421 | Dec 2013 | 1.408 | Oct 2014 | 0.716 | Nov 2015 | - | | 0.716 | Continuing | Continuing | Continuing |
| Government Engineering Support | WR | NSWC Corona : Corona, CA | 0.000 | - | Jun 2014 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Logistics/Training | C/CPFF | Pioneering Evolution : Arlington, VA | 0.166 | - | | - | | - | | - | | - | - | 0.166 | - |
| RRE Installation | WR | Planning Yard : Yokosuka, Japan | 0.034 | - | | - | | - | | - | | - | - | 0.034 | - |
| RRE Installation | SS/CPFF | Planning Yard : Bath, ME | 1.939 | 2.315 | Nov 2013 | - | | - | | - | | - | - | 4.254 | - |
| EW UON | WR | Cherry Point Army : Aberdeen Proving Ground, MD | 0.000 | 0.022 | Jan 2014 | - | | - | | - | | - | - | 0.022 | - |
| EW UON | WR | Cherry Point Navy : Cherry Point, NC | 0.000 | 0.148 | Jan 2014 | - | | - | | - | | - | - | 0.148 | - |
| EW UON | WR | NSWC Indian Head : Indian Head, MD | 0.000 | 0.050 | Jan 2014 | - | | - | | - | | - | - | 0.050 | - |
| EW UON | WR | NSSA Norfolk : Norfolk, VA | 0.000 | 0.070 | Feb 2014 | - | | - | | - | | - | - | 0.070 | - |
| RRE Installation | WR | Norfolk Naval Shipyard : Norfolk, VA | 2.064 | - | | - | | - | | - | | - | - | 2.064 | - |
| RRE Installation | WR | Det-Naples : Naples, Italy | 0.500 | - | | - | | - | | - | | - | - | 0.500 | - |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--|-------------|---------|------------|---|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3316 / Advanced Offboard EW | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Subtotal | | | 16.075 | 8.537 | | 7.581 | | 6.224 | | - | | 6.224 | - | - | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Test Planning and Development Testing | WR | NRL : Washington, DC | 0.600 | 0.988 | Dec 2013 | 1.573 | Oct 2014 | 0.658 | Nov 2015 | - | | 0.658 | Continuing | Continuing | Continuing |
| Test Planning and Development Testing | WR | NSWC/Dahlgren : Dahlgren, VA | 1.010 | 0.402 | Nov 2013 | 0.417 | Oct 2014 | 0.150 | Nov 2015 | - | | 0.150 | Continuing | Continuing | Continuing |
| Test Planning and Development Testing | WR | NSWC Crane : Crane, IN | 0.458 | - | | 0.480 | Oct 2014 | 0.150 | Nov 2015 | - | | 0.150 | Continuing | Continuing | Continuing |
| Test Planning and Development Testing | WR | NAVAIR : Patuxent River, MD | 0.000 | - | | 0.075 | Oct 2014 | 0.500 | Nov 2015 | - | | 0.500 | Continuing | Continuing | Continuing |
| Test Planning and Development Testing | WR | OPTEVFOR : Norfolk, VA | 0.100 | 0.069 | Nov 2013 | 0.330 | Dec 2014 | 0.330 | Nov 2015 | - | | 0.330 | Continuing | Continuing | Continuing |
| Test and Evaluation | WR | Navy Post Graduate School : Monterey, CA | 0.090 | - | | - | | - | | - | | - | - | 0.090 | - |
| EW UON Test and Evaluation | C/FPAF | SRF Rota : Rota, Spain | 0.000 | 1.728 | Feb 2014 | - | | - | | - | | - | - | 1.728 | - |
| EW UON Test and Evaluation | WR | NSSA Norfolk : Norfolk, VA | 0.000 | 0.018 | Feb 2014 | - | | - | | - | | - | - | 0.018 | - |
| EW UON Test and Evaluation | WR | SUPSHIP Bath : Bath, ME | 0.000 | 1.166 | Nov 2013 | - | | - | | - | | - | - | 1.166 | - |
| Subtotal | | | 2.258 | 4.371 | | 2.875 | | 1.788 | | - | | 1.788 | - | - | - |
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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | | | Project (Number/Name) 3316 / Advanced Offboard EW | | | |

| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Program Management Support | C/CPIF | SPA (SEAPORT) : Washington, DC | 4.210 | 1.831 | Jan 2014 | 2.400 | Feb 2015 | 1.500 | Nov 2015 | - | | 1.500 | Continuing | Continuing | Continuing |
| Travel | WR | NAVSEA Program Office Travel : Washington, DC | 0.043 | 0.030 | Nov 2013 | 0.070 | Feb 2015 | 0.070 | Nov 2015 | - | | 0.070 | Continuing | Continuing | Continuing |
| Subtotal | | | 4.253 | 1.861 | | 2.470 | | 1.570 | | - | | 1.570 | - | - | - |

| | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--------------------|----------------|--|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| Project Cost Totals | 47.740 | 23.521 | | 43.131 | | 39.881 | | - | | 39.881 | - | - | - |

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

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|----------------------------|
| Date: February 2015 |
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1319 / 5

| R-1 Program Element (Number/Name) | Program Element Description | Program Element Type | Program Element Status | Program Element Location | Program Element Contact | Program Element Date | Program Element Notes |
|-----------------------------------|-----------------------------|----------------------|------------------------|--------------------------|-------------------------|----------------------|-----------------------|
| | | | | | | | |

PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)

| Project (Number/Name) | Start Date | End Date | Duration (Days) | Team Lead | Status | Progress (%) | Budget (USD) | Actual Cost (USD) | Variance (USD) | Risk Level | Notes |
|-----------------------|------------|------------|-----------------|--------------|-------------|--------------|--------------|-------------------|----------------|------------|--|
| 101 | 2023-01-01 | 2023-03-15 | 74 | John Doe | Completed | 100 | 15000 | 14800 | 200 | Low | Project completed ahead of schedule. |
| 102 | 2023-02-01 | 2023-04-30 | 89 | Jane Smith | In Progress | 75 | 20000 | 21000 | -1000 | Medium | Minor budget overrun, on track for completion. |
| 103 | 2023-03-01 | 2023-05-15 | 75 | Mike Johnson | On Hold | 20 | 18000 | 18000 | 0 | High | Project paused due to resource allocation. |
| 104 | 2023-04-01 | 2023-06-30 | 90 | Sarah Lee | Planned | 0 | 22000 | 22000 | 0 | Medium | Project planning phase. |
| 105 | 2023-05-01 | 2023-07-15 | 75 | David Kim | Completed | 100 | 12000 | 11500 | 500 | Low | Project completed successfully. |
| 106 | 2023-06-01 | 2023-08-31 | 91 | Emily White | In Progress | 60 | 19000 | 19500 | -500 | Medium | Minor budget overrun, on track. |
| 107 | 2023-07-01 | 2023-09-15 | 76 | Chris Brown | On Hold | 10 | 17000 | 17000 | 0 | High | Project paused due to technical challenges. |
| 108 | 2023-08-01 | 2023-10-31 | 91 | Alex Green | Planned | 0 | 21000 | 21000 | 0 | Medium | Project planning phase. |
| 109 | 2023-09-01 | 2023-11-15 | 75 | Mia Black | Completed | 100 | 14000 | 14200 | -200 | Low | Project completed with slight budget overrun. |
| 110 | 2023-10-01 | 2023-12-31 | 91 | Noah Grey | In Progress | 50 | 20000 | 20000 | 0 | Medium | Project on track for completion. |

3316 / *Advanced Offboard EW*

| Fiscal Year | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|------------------------------|-------------------------|---|---|---|------|---|---|---|------------------------|---|----------|---|--|---|---|----------|----------------------------|---|---|---|------|--------------|---|---|------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones (TBD) | | | | | | | | △ | MS B | | | | | | | | | | | | △ | MS C/LRIP DR | | | | | | |
| Development | DDE Concept Development | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | DDE Preliminary Design | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | DDE / Engineering and Manufacturing Development (E&MD) | | | | | | | | | | | | | | | |
| | | | | | | | | | △ SRR | | △ SFR | | PDR △ | | | CDR △ | | | | | | | | | | | | |
| Test & Evaluation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Test | RRE Test | | | | | | | | | | | | | | | | DDE Test and Certification | | | | | | | | | | | |
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| | RRE Install | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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RRE: Rapid Response Effort

DDE: Decoy Development Effort

PE 0604757N: *Ship Self Def (Engage: Soft Kill/EW)*
Navy

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R-1 Line #131

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 3316 / Advanced Offboard EW | |

Schedule Details

| Events by Sub Project | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Proj 3316 | | | | |
| DDE Concept Development | 1 | 2014 | 4 | 2014 |
| RRE Installation | 1 | 2014 | 2 | 2014 |
| RRE Test | 1 | 2014 | 3 | 2015 |
| Milestone (MS) B | 4 | 2015 | 4 | 2015 |
| DDE Preliminary Design | 4 | 2015 | 4 | 2016 |
| System Requirements Review (SRR) | 1 | 2016 | 1 | 2016 |
| System Functional Review (SFR) | 2 | 2016 | 2 | 2016 |
| Preliminary Design Review (PDR) | 4 | 2016 | 4 | 2016 |
| DDE / E&MD | 1 | 2017 | 1 | 2019 |
| Critical Design Review (CDR) | 3 | 2017 | 3 | 2017 |
| DDE Test and Certification | 1 | 2018 | 1 | 2019 |
| Operational Affectiveness (OA) | 4 | 2018 | 4 | 2018 |
| Milestone (MS) C / LRIP DR | 2 | 2019 | 2 | 2019 |
| Initial Operational Test and Evaluation (IOT&E) | 2 | 2020 | 2 | 2020 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3321. / SEWIP Block 3 | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 3321.: SEWIP Block 3 | 169.968 | 56.635 | 59.736 | 60.102 | - | 60.102 | 66.531 | 37.565 | 37.820 | 38.631 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| SEWIP Block 3 is developing an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. SEWIP Block 3 is developing a common EA capability to all surface combatants (CVN, CG, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms. | | | | | | | | | | | | |
| The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. SEWIP Block 3 will continue to expand the integrated shipboard combat system by providing a new integrated Electronic Attack (EA) transmitter, array, and associated EA techniques. The program builds on the EW Support (ES) capability delivered by SEWIP Blocks 1 and 2. SEWIP Block 3 includes a government software development effort for a SoftKill Coordinator (SKC) to manage EA engagements. | | | | | | | | | | | | |
| SEWIP Block 3 includes development and initial, limited interim capability by 2014 of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) systems to support CNO Urgent Operational Needs (UON). Block 3T is the TEWM system supporting the 7th fleet UON. TEWM Speed to Fleet (STF) is the TEWM system supporting the 6th fleet UON. | | | | | | | | | | | | |
| The TEWM Speed to Fleet effort develops the TEWM system capability for engaging a wide range of anti-ship missile seekers to address the broader EW capability gap. This effort provides the resources to refine and accelerate the design, make it suitable for operational shipboard application, and implements a network command protocol to efficiently allow use on broad class of ships. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Title: SEWIP Block 3 Government Engineering | | | | | | | | 33.029 | 29.311 | 16.005 | - | 16.005 |
| | | | | | | | | Articles: - | - | - | - | - |
| FY 2014 Accomplishments: Continued system engineering. Commenced Soft Kill Coordinator (SKC) software development. Completed MS B preparation and acquisition documentation. Conducted MS B. | | | | | | | | | | | | |
| FY 2015 Plans: Continue system engineering. Continue SKC software development. | | | | | | | | | | | | |

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|---|--|---|---------|--|-------------|---------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | Project (Number/Name) 3321. / SEWIP Block 3 | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Award Preliminary Design contract. Conduct Integrated Baseline Review (IBR). Support System Functional Review (SFR) and Systems Requirements Review (SRR). Support Preliminary Design Review (PDR). Exercise Engineering and Manufacturing Development (E&MD) option. FY 2016 Base Plans: Complete Preliminary Design. Continue system engineering. Complete SKC software development, Build 1. Support Critical Design Review (CDR). FY 2016 OCO Plans: N/A | | | | | | |
| Title: SEWIP Block 3 Development | | 0.500 | 29.105 | 44.097 | - | 44.097 |
| Articles: | | - | - | - | - | - |
| FY 2014 Accomplishments: Continued SEWTT development. | | | | | | |
| FY 2015 Plans: Continue SEWTT development. Commence Preliminary Design. Support Integrated Baseline Review (IBR). Conduct System Functional Review (SFR) and Systems Requirements Review (SRR). Conduct Preliminary Design Review (PDR). Complete Preliminary Design. Commence Engineering and Manufacturing Development (E&MD). | | | | | | |
| FY 2016 Base Plans: SEWIP Block 3 will continue E&MD for the full year (FY16). E&MD is a more complex phase than Preliminary Design and includes the funding to procure the material associated with the Engineering Development Model (EDM) post-CDR. Continue SEWTT Development. Conduct Critical Design Review (CDR). | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 3321. / SEWIP Block 3 | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Procure Engineering Development Model (EDM) material. | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | |
| Title: Block 3T Development | | 8.296 | - | - | - | - |
| Articles: | | - | - | - | - | - |
| FY 2014 Accomplishments: Completed development of Block 3T system. | | | | | | |
| FY 2015 Plans: N/A | | | | | | |
| FY 2016 Base Plans: N/A | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | |
| Title: Block 3T System Engineering | | 2.366 | - | - | - | - |
| Articles: | | - | - | - | - | - |
| FY 2014 Accomplishments: Completed Block 3T systems engineering and integration. | | | | | | |
| FY 2015 Plans: N/A | | | | | | |
| FY 2016 Base Plans: N/A | | | | | | |
| FY 2016 OCO Plans: N/A | | | | | | |
| Title: Block 3T Testing | | 2.039 | - | - | - | - |
| Articles: | | - | - | - | - | - |
| FY 2014 Accomplishments: Completed Block 3T testing. | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | Project (Number/Name) 3321. / SEWIP Block 3 | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Completed Block 3T Simulator and Radar test platform. FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A | | | | | | |
| Title: TEWM Speed To Fleet (STF) Development Articles: | | 3.000 - | 1.120 - | - - | - - | - - |
| FY 2014 Accomplishments: Commenced development of the TEWM STF system. FY 2015 Plans: Complete development of the TEWM STF system. FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A | | | | | | |
| Title: TEWM Speed to Fleet (STF) Testing Articles: | | 3.100 - | - - | - - | - - | - - |
| FY 2014 Accomplishments: Conducted TEWM STF Testing. FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: | | | | | | |

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|---|---------|---------|--------------|---|---------------|--------------|--|---------------|---------|---------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | |
| Appropriation/Budget Activity 1319 / 5 | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | Project (Number/Name) 3321. / SEWIP Block 3 | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | | | | | | | | | | | |
| | | | | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | | | |
| N/A | | | | | | | | | | | |
| Title: TEWM Speed to Fleet (STF) Systems Engineering FY 2014 Accomplishments: Commenced TEWM STF systems engineering and integration. FY 2015 Plans: Complete TEWM STF systems engineering and integration. FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A | | | | 3.391 Articles: - | 0.200 - | - | - | - | | | |
| Title: Speed to Fleet- Transportable Electronic Warfare Module (TEWM) FY 2014 Accomplishments: - Continue to test equipment at sea. FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A | | | | 0.914 Articles: - | - | - | - | - | | | |
| Accomplishments/Planned Programs Subtotals | | | | 56.635 | 59.736 | 60.102 | - | 60.102 | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • 0204228N/2312: AN/SLQ-32 | 150.353 | 195.082 | 324.726 | - | 324.726 | 412.526 | 427.934 | 443.407 | 546.733 | Continuing | Continuing |
| Remarks | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 3321. / <i>SEWIP Block 3</i> |
| <p><u>D. Acquisition Strategy</u></p> <p>SEWIP will develop block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each block and sub-block will be developed and contracted in an individual yet coordinated and overlapping fashion. Specifically, SEWIP Block 3 involves the transitioning and leveraging of work performed under the INTOP program sponsored by ONR, which focused on designing/architecting an integrated Electronic Attack (EA), Information Operations (IO), and Line of Site (LOS) Comms system for Naval Surface Platforms. SEWIP Block 3 also leverages work performed under the TEWM program that is sponsored by NRL that focuses on technique development and active engagement analysis/modeling for Naval surface combatants.</p> <p>TEWM is a non-acquisition development and demonstration program to rapidly deliver advanced counter terminal EW capability in a transportable form factor for Fleet application. The units developed under this Speed to Fleet project provides a rapidly deployable capability. Multiple copies of the first articles can be rapidly replicated depending on operational needs.</p> <p><u>E. Performance Metrics</u></p> <ul style="list-style-type: none"> Achieve Block 3 Milestone B. Complete Block 3T and STF development. Complete Block 3T and STF integration and testing. Award Preliminary Design Contract. Conduct SFR and SRR. Conduct PDR. Exercise E&MD option. Conduct CDR. Achieve Block 3 MS C / LRIP DR. Complete laboratory and at-sea testing against captive carry simulators. | | |

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|---|------------------------|---|-------------|---------|------------|---|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3321. / SEWIP Block 3 | | | | | |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 3 Technology Demonstration | SS/CPFF | Northrop Grumman: Linthicum, MD : Raytheon: Tewksbury, MA | 37.195 | - | | - | | - | | - | | - | - | 37.195 | - |
| Block 3T Primary Hardware Development | C/CPFF | ITT Exelis : Alexandria, VA | 46.328 | 8.296 | Nov 2013 | - | | - | | - | | - | - | 54.624 | - |
| Block 3 SEWTT Development | SS/CPFF | EWA-GSI : Fairmont, WV | 1.119 | 0.500 | Nov 2013 | - | | 0.311 | Nov 2015 | - | | 0.311 | Continuing | Continuing | Continuing |
| TEWM STF Primary Hardware Development | WR | NRL : Washington, DC | 4.000 | 3.000 | Jan 2014 | 0.920 | Feb 2015 | - | | - | | - | - | 7.920 | - |
| Block 3 Preliminary Design/E&MD | C/CPIF | TBD : TBD | 0.000 | - | | 29.105 | Feb 2015 | 43.786 | Nov 2015 | - | | 43.786 | Continuing | Continuing | Continuing |
| Subtotal | | | 88.642 | 11.796 | | 30.025 | | 44.097 | | - | | 44.097 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |
| The increase in SEWIP Block 3 Development in FY16 is due to FY16 being the first full year of E&MD. E&MD is a more complex phase than Preliminary Design and includes the funding to procure the material associated with the Engineering Development Model (EDM) post-CDR. FY16 includes significant effort to complete Critical Design Review (CDR) and includes the procurement of material for the Engineering Development Model (EDM). | | | | | | | | | | | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 3 Integrated Logistics Support | WR | NSWC Crane : Crane, IN | 4.557 | 1.544 | Dec 2013 | 2.291 | Nov 2014 | 2.045 | Nov 2015 | - | | 2.045 | Continuing | Continuing | Continuing |
| Block 3 Integrated Logistics Support | WR | NSWC Carderock : Bethesda, MD | 0.000 | - | | 0.142 | Nov 2014 | 0.100 | Nov 2015 | - | | 0.100 | Continuing | Continuing | Continuing |
| Block 3 Government Engineering Support | WR | NSWC Dahlgren : Dahlgren, VA | 7.203 | 6.046 | Dec 2013 | 5.809 | Nov 2014 | 1.850 | Nov 2015 | - | | 1.850 | Continuing | Continuing | Continuing |
| Block 3 Government Engineering Support | WR | NSWC Crane : Crane, IN | 3.301 | 2.013 | Dec 2013 | 0.734 | Oct 2014 | 0.513 | Nov 2015 | - | | 0.513 | Continuing | Continuing | Continuing |
| Block 3 Government Engineering Support | WR | NRL : Washington, DC | 6.427 | 6.077 | Dec 2013 | 4.426 | Nov 2014 | 1.804 | Nov 2015 | - | | 1.804 | Continuing | Continuing | Continuing |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|--------------------------------|-------------|---------|------------|---|------------|--------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3321. / SEWIP Block 3 | | | | | |
| Support (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 3 Government Engineering Support | SS/CPFF | APL : Laurel, MD | 8.032 | 6.891 | Nov 2013 | 6.970 | Feb 2015 | 2.162 | Nov 2015 | - | | 2.162 | Continuing | Continuing | Continuing |
| Block 3 Government Engineering Support | WR | MIT-LL : Cambridge, MA | 1.880 | 1.219 | Nov 2013 | 1.686 | Jan 2015 | 0.449 | Nov 2015 | - | | 0.449 | Continuing | Continuing | Continuing |
| Block 3 Government Engineering Support | WR | GTRI : Atlanta, GA | 1.040 | - | | - | | 0.166 | Nov 2015 | - | | 0.166 | Continuing | Continuing | Continuing |
| Block 3T Systems Engineering | WR | NRL : Washington, DC | 11.166 | 2.366 | Nov 2013 | - | | - | | - | | - | - | 13.532 | - |
| TEWM STF Systems Engineering | WR | NRL : Washington, DC | 2.000 | 3.391 | Jan 2014 | 0.400 | Feb 2015 | - | | - | | - | - | 5.791 | - |
| Subtotal | | | 45.606 | 29.547 | | 22.458 | | 9.089 | | - | | 9.089 | - | - | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 3 Test Planning/T&E Events | WR | NSWC Dahlgren : Dahlgren, VA | 2.381 | 0.643 | Dec 2013 | 0.185 | Nov 2014 | 0.339 | Nov 2015 | - | | 0.339 | Continuing | Continuing | Continuing |
| Block 3 Test Planning/T&E Events | WR | NSWC Crane : Crane, IN | 1.003 | 0.698 | Dec 2013 | 0.490 | Oct 2014 | 0.638 | Nov 2015 | - | | 0.638 | Continuing | Continuing | Continuing |
| Block 3 Test Planning/T&E Events | WR | NRL : Washington, DC | 3.787 | 1.620 | Dec 2013 | 2.090 | Nov 2014 | 2.055 | Nov 2015 | - | | 2.055 | Continuing | Continuing | Continuing |
| TEWM Testing | WR | NRL : Washington, DC | 8.602 | 2.039 | Nov 2013 | - | | - | | - | | - | - | 10.641 | - |
| TEWM STF Testing | WR | NRL : Washington, DC | 1.099 | 3.100 | Jan 2014 | - | | - | | - | | - | - | 4.199 | - |
| Developmental Test and Evaluation (Speed to Fleet) | Reqn | NRL : Washington DC | 3.534 | 0.914 | Feb 2014 | - | | - | | - | | - | - | 4.448 | 4.652 |
| Subtotal | | | 20.406 | 9.014 | | 2.765 | | 3.032 | | - | | 3.032 | - | - | - |
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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3321. / SEWIP Block 3 | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| Block 3 Program Management Support | C/CPIF | SPA (SEAPORT) : Washington, DC | 9.204 | 5.091 | Feb 2014 | 3.436 | Feb 2015 | 2.885 | Nov 2015 | - | | 2.885 | Continuing | Continuing | Continuing |
| Block 3 Program Management Support | WR | NSWC Dahlgren : Dahlgren, VA | 3.586 | 0.228 | Dec 2013 | 0.252 | Nov 2014 | 0.254 | Nov 2015 | - | | 0.254 | Continuing | Continuing | Continuing |
| Block 3 Program Management Support | WR | NSWC Crane : Crane, IN | 1.129 | 0.365 | Dec 2013 | 0.136 | Oct 2014 | 0.153 | Nov 2015 | - | | 0.153 | Continuing | Continuing | Continuing |
| Block 3 Program Management Support | WR | NRL : Washington, DC | 1.201 | 0.317 | Jan 2014 | 0.387 | Nov 2014 | 0.342 | Nov 2015 | - | | 0.342 | Continuing | Continuing | Continuing |
| Block 3 Program Management Support | MIPR | DISA : Laurel, MD | 0.000 | 0.227 | Oct 2014 | 0.227 | Feb 2015 | 0.200 | Nov 2015 | - | | 0.200 | Continuing | Continuing | Continuing |
| Block 3 Travel | WR | NAVSEA Program Office : Washington, DC | 0.194 | 0.050 | Jun 2014 | 0.050 | Oct 2014 | 0.050 | Nov 2015 | - | | 0.050 | Continuing | Continuing | Continuing |
| Subtotal | | | 15.314 | 6.278 | | 4.488 | | 3.884 | | - | | 3.884 | - | - | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 169.968 | 56.635 | | 59.736 | | 60.102 | | - | | 60.102 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

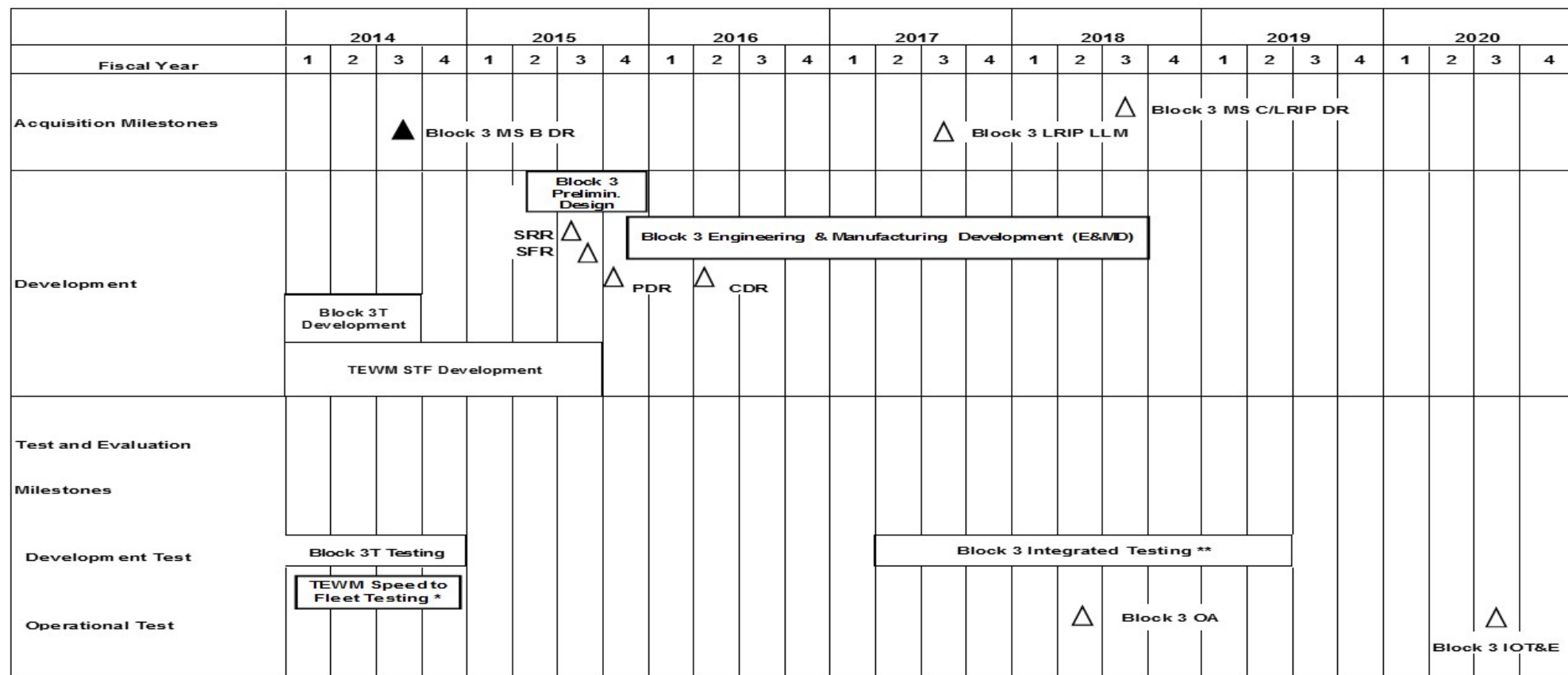
1319 / 5

R-1 Program Element (Number/Name)

PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)

Project (Number/Name)

3321. / SEWIP Block 3



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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 3321. / <i>SEWIP Block 3</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 3321.L24</i> | | | | |
| TEWM Speed to Fleet Development | 1 | 2014 | 3 | 2015 |
| Block 3T Development | 1 | 2014 | 3 | 2014 |
| Block 3T Testing | 1 | 2014 | 4 | 2014 |
| TEWM Speed to Fleet Testing | 1 | 2014 | 4 | 2014 |
| Block 3 MS B DR | 3 | 2014 | 3 | 2014 |
| Block 3 Preliminary Design | 2 | 2015 | 1 | 2016 |
| SRR | 3 | 2015 | 3 | 2015 |
| SFR | 3 | 2015 | 3 | 2015 |
| PDR | 4 | 2015 | 4 | 2015 |
| Block 3 Engineering and Manufacturing Development (E&MD) | 4 | 2015 | 3 | 2018 |
| CDR | 2 | 2016 | 2 | 2016 |
| Block 3 Integrated Testing | 2 | 2017 | 2 | 2019 |
| Block 3 LRIP LLM | 3 | 2017 | 3 | 2017 |
| Block 3 Operational Assessment | 2 | 2018 | 2 | 2018 |
| Block 3 MS C/LRIP DR | 3 | 2018 | 3 | 2018 |
| Block 3 IOT&E | 3 | 2020 | 3 | 2020 |

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|---|-------------|---------|---------|--------------|---|---------------|---------|---------|---|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | Project (Number/Name) 3362 / E-NULKA | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 3362: E-NULKA | - | 0.013 | - | - | - | - | - | - | - | - | - | 0.013 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification
 E-Nulka is an upgrade to the Nulka decoy to expand frequency coverage to counter an emerging class of Anti-Ship Missiles (ASMs) for which no active countermeasure currently exists. The Program supports the engineering development of the payload receiver, signal processor and transmitter, construction of complete payloads, integration of the completed payload with the Nulka vehicle, and subsequent technical and operational assessment. The program has been delayed until FY15 at which time the program will transfer to a classified portion of the budget due to changes in the security classification guidance.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

| | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|---|---------|---------|--------------|-------------|---------------|
| Title: E-Nulka Decoy | 0.013 | - | - | - | - |
| Articles: | - | - | - | - | - |
| FY 2014 Accomplishments: Funds transferred to SEWIP Block 2 and Advanced Offboard EW due to CNO direction for higher priority requirements. | | | | | |
| FY 2015 Plans: N/A | | | | | |
| FY 2016 Base Plans: N/A | | | | | |
| FY 2016 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | 0.013 | - | - | - | - |

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

Remarks

D. Acquisition Strategy
 E-Nulka has been delayed until FY15 and will support the engineering development/enhancement of the payload receiver, transmitter, signal processor and power supply. Due to changes in the security classification guidance, this program will transfer to a classified portion of the budget starting in FY15.

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | Project (Number/Name) 3362 / E-NULKA |
| E. Performance Metrics N/A | | |

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|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 1319 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW) | | | | | | Project (Number/Name) 3362 / E-NULKA | | | |

| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 |
| NAVSEA | WR | NAVSEA : Washington, D.C. | 0.000 | 0.013 | Aug 2014 | - | | - | | - | | - | - | 0.013 | - |
| Subtotal | | | 0.000 | 0.013 | | - | | - | | - | | - | - | 0.013 | - |

| | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| Project Cost Totals | 0.000 | 0.013 | - | - | - | - | - | 0.013 | - |

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604757N / *Ship Self Def (Engage: Soft Kill/EW)*

Project (Number/Name)

3362 / *E-NULKA*

| Fiscal Year | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | | 2019 | | | | 2020 | | | |
|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones (TBD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sy stem s Development Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test & Evaluation Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTE: Due to changes in the security classification guidance, this program will transfer to a classified portion of the budget starting in FY15.

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy | | | Date: February 2015 |
| Appropriation/Budget Activity 1319 / 5 | R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i> | Project (Number/Name) 3362 / <i>E-NULKA</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Proj 3362</i> | | | | |
| Requirements Development | 1 | 2014 | 4 | 2014 |