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| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy | | | | | | | | | DATE: February 2010 | | |
|---|----------------|------------------|-----------------------|--|------------------------|------------------|------------------|------------------|---------------------|------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY | | | | R-1 ITEM NOMENCLATURE | | | | | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 3: Advanced Technology Development (ATD) | | | | PE 0603758N: Navy Warfighting Exp & Demo | | | | | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| Total Program Element | 65.208 | 52.373 | 53.177 | 0.000 | 53.177 | 63.292 | 68.497 | 69.861 | 71.533 | Continuing | Continuing |
| 2918: Navy Warfighting Experiments and Demo | 59.025 | 52.373 | 53.177 | 0.000 | 53.177 | 63.292 | 68.497 | 69.861 | 71.533 | Continuing | Continuing |
| 9999: Congressional Adds | 6.183 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.183 |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | |
| <p>This Program Element (PE) addresses the development of recent technology breakthroughs to meet current operational needs from a subscale proof-of-principle into a full-scale prototype for warfighter experimentation during laboratory and operational demonstrations, Fleet Battle Experiments (FBE), Limited Objective Experiments (LOEs) and Sea Trial Exercises. The key aspects of this PE are divided into four areas: (1) SwampWorks develops and demonstrates newly invented or recently discovered technologies that address emergent and enduring operational problems in an accelerated timeframe; (2) Naval Warfare Experimentation develops prototypes of recent technology breakthroughs and provides them to the warfighter for experimentation during FBEs, LOEs or Sea Trials; (3) Tech Solutions develops rapid response science and technology prototypes addressing Fleet/Force needs identified by Sailors and Marines at the deckplate level; and (4) Operations Analysis provides the Navy and Marine Corps the means to identify capability needs that can be addressed with science and technology solutions.</p> | | | | | | | | | | | |
| <p>Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.</p> | | | | | | | | | | | |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy | | | | DATE: February 2010 | |
| APPROPRIATION/BUDGET ACTIVITY | | R-1 ITEM NOMENCLATURE | | | |
| 1319: Research, Development, Test & Evaluation, Navy BA 3: Advanced Technology Development (ATD) | | PE 0603758N: Navy Warfighting Exp & Demo | | | |
| B. Program Change Summary (\$ in Millions) | | | | | |
| | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| Previous President's Budget | 66.138 | 52.643 | 0.000 | 0.000 | 0.000 |
| Current President's Budget | 65.208 | 52.373 | 53.177 | 0.000 | 53.177 |
| Total Adjustments | -0.930 | -0.270 | 53.177 | 0.000 | 53.177 |
| • Congressional General Reductions | | -0.218 | | | |
| • Congressional Directed Reductions | | 0.000 | | | |
| • Congressional Rescissions | 0.000 | -0.052 | | | |
| • Congressional Adds | | 0.000 | | | |
| • Congressional Directed Transfers | | 0.000 | | | |
| • Reprogrammings | 0.282 | 0.000 | | | |
| • SBIR/STTR Transfer | -1.212 | 0.000 | | | |
| • Program Adjustments | 0.000 | 0.000 | 53.177 | 0.000 | 53.177 |
| Congressional Add Details (\$ in Millions, and Includes General Reductions) | | | | | |
| Project: 9999: Congressional Adds | | | | | |
| Congressional Add: Immersive Naval Officer Training Systems | | | | | |
| Congressional Add: Portable Launch and Recovery System for UAV Operat | | | | | |
| Congressional Add Subtotals for Project: 9999 | | | | | |
| Congressional Add Totals for all Projects | | | | | |
| Change Summary Explanation | | | | | |
| Technical: Not applicable. | | | | | |
| Schedule: Not applicable. | | | | | |
| FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010. | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | | | | | | DATE: February 2010 | | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 3: <i>Advanced Technology Development (ATD)</i> | | | | R-1 ITEM NOMENCLATURE PE 0603758N: <i>Navy Warfighting Exp & Demo</i> | | | | PROJECT 2918: <i>Navy Warfighting Experiments and Demo</i> | | | |
| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost |
| 2918: <i>Navy Warfighting Experiments and Demo</i> | 59.025 | 52.373 | 53.177 | 0.000 | 53.177 | 63.292 | 68.497 | 69.861 | 71.533 | Continuing | Continuing |
| A. Mission Description and Budget Item Justification This project focuses on the development of recent technology breakthroughs to meet current operational needs from a subscale proof-of-principle into a full-scale prototype for warfighter experimentation during laboratory and operational demonstrations, FBE, LOEs and Sea Trial Exercises. | | | | | | | | | | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | | | | |
| | | | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total | |
| NAVAL WARFARE EXPERIMENTATION | | | | | | 34.838 | 26.975 | 19.704 | 0.000 | 19.704 | |
| <p>The objective of this project is to capitalize on recent technology breakthroughs to develop prototypes quickly and provide them to the warfighter for experimentation during laboratory and operational demonstrations, Sea Trials or LOEs. Current efforts include experimentation with Electronics Warfare (EW) technologies, development of test simulation technology for ship affordability, technology to advance riverine warfare operations, development and demonstration of real time situational awareness technologies, fuel cell power for unmanned air vehicles, and technology investigation studies.</p> <p>The funding level decrease in FY 2010 and FY 2011 is due to completion of additional experimentation initiatives funded initially in FY 2009.</p> <p><i>FY 2009 Accomplishments:</i></p> <ul style="list-style-type: none"> - Continued concept based technology program efforts. - Continued experimentation efforts with technologies developed in SwampWorks/Tech Solutions. - Continued to identify promising technology breakthroughs that can be prototyped and delivered to the warfighter for experimentation. - Continued development and demonstration of real time situational awareness technologies. | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | | DATE: February 2010 | | |
| APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 3: Advanced Technology Development (ATD) | | R-1 ITEM NOMENCLATURE PE 0603758N: Navy Warfighting Exp & Demo | | PROJECT 2918: Navy Warfighting Experiments and Demo | | |
| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <ul style="list-style-type: none">- Continued Ship Affordability program to examine ship designs and construction processes and develop technologies that can significantly reduce the costs to conceive, design and construct naval ships.- Continued development of Autonomous Underwater Vehicle (AUV) large sensor network for persistent pervasive surveillance.- Continued DDG-51 fuel efficient power & propulsion demonstrator effort.- Initiated and completed Maritime Domain Awareness (MDA) augmentation.- Initiated and completed effort to develop and demonstrate an integrated, affordable and minimally manned warfighting sensor capability to provide adaptive persistent surveillance leading to Operational Adaptation by Naval forces in defeating the Asymmetric and Irregular Warfare threat.- Initiated effort to develop and demonstrate integrated intelligence, surveillance, observation, and navigation technologies into a common operation picture accessible throughout the U.S. Government.- Initiated effort to demonstrate shipboard high temperature degaussing technologies.- Initiated development of network attack option models for near real time forensics and social network mapping.- Initiated at sea laser technology experimentation. <p>Acquisition Workforce Fund</p> <ul style="list-style-type: none">- Funded DoD Acquisition Workforce Fund. <p>FY 2010 Plans:</p> <ul style="list-style-type: none">- Continue all FY 2009 efforts, less those noted as complete above.- Complete development of AUV large sensor network for persistent pervasive surveillance.- Complete at sea laser technology experimentation.- Complete effort to demonstrate shipboard high temperature degaussing technologies.- Initiate and complete advanced coupling for integrated in line high speed generator energy storage effort. | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy | | | | DATE: February 2010 | | |
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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <ul style="list-style-type: none">- Initiate and complete experiments to demonstrate shipboard high efficiency solid state lighting technologies.- Initiate technology experimentation for Total Ownership Cost (TOC) reduction. <p><i>FY 2011 Base Plans:</i></p> <ul style="list-style-type: none">- Continue all FY 2010 efforts, less those noted as complete above.- Complete development of network attack option models for near real time forensics and social network mapping.- Initiate efforts to develop and demonstrate technologies to meet current or emerging operational needs. | | | | | | |
| OPERATIONS ANALYSIS The objective of this project is to provide operational analysis through studies, analyses, gaming and experimentation to identify Navy and Marine Corps capability needs that can be addressed with Science and Technology (S&T) solutions. The effort includes core analysis of S&T programs, military utility / capability gaps analyses, war gaming and fleet experimentation analysis. Recent work includes development and execution of an MDA war game as part of an MDA Simulation Experiment (SIMEX); participation in SIMEX data collection and analysis; support of Joint Capabilities Integration Development System capabilities; development of a Code of Best Practices for Operational Experimentation; analytical, strategic planning, and wargaming support of Innovative Naval Prototype efforts; organizing and conducting workshops and symposia that increase innovative outreach; fleet operational readiness assessments; and, Red Team conceptual analysis. <i>FY 2009 Accomplishments:</i> <ul style="list-style-type: none">- Continued to conduct Military Utility Analyses of Future Naval Capability technologies.- Continued to conduct capability gaps analyses to identify areas that can be addressed with products from the S&T portfolio. | | 2.797 | 2.706 | 2.864 | 0.000 | 2.864 |

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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <p>- Continued to conduct war games focused on technical issues for S&T transitions to acquisition and the fleet.</p> <p><i>FY 2010 Plans:</i></p> <p>- Continue all FY 2009 efforts.</p> <p><i>FY 2011 Base Plans:</i></p> <p>- Continue all FY 2010 efforts.</p> | | | | | | |
| SWAMPWORKS | | 13.991 | 13.355 | 21.062 | 0.000 | 21.062 |
| <p>SwampWorks seeks to develop and demonstrate technologies that address emergent and enduring operational problems in an accelerated timeframe. Some of these technologies may end up in the hands of the warfighter for experimentation, or may culminate in a significant exercise that demonstrates capability then transitions into the Acquisition Program of Record (POR). Examples of recent successes are the half-length torpedo which led to the development of the SwampWorks Broadband Sonar and transitioned to the Mk 48 Advanced Capability program and the Aircraft Carrier Situational Awareness System, which will be incorporated into a POR. Examples of current efforts include a high resolution sonar for the new lightweight torpedo, energy storage and reduced energy consumption technologies, coherent stand-in jammer, full ship shock test simulation, effective active acoustics simulation, and technology investigation studies.</p> <p>The increase in funding from FY 2010 to FY 2011 is due to an increased emphasis in developing and demonstrating technologies that address emergent and enduring operational problems in an accelerated timeframe. Among the efforts pursued during FY 2011 are advanced development of DC power components and systems for shipboard applications; development of advanced unmanned systems; development of advanced technologies for the new generation of DDG-51; increased emphasis on electronic warfare, reduction of Total Ownership Costs (TOC), and autonomy capabilities; and rapid development of advanced technologies that directly support Navy priorities due to shifting theatres of operation.</p> | | | | | | |

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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <p><i>FY 2009 Accomplishments:</i></p> <ul style="list-style-type: none">- Continued to identify enduring and emergent operational barriers identified by naval leadership and responded with relevant technology developments and demonstrations.- Continued novel heavy fuel propulsion system development.- Completed development of new technologies that are responsive to Taskforce Antisubmarine Warfare.- Completed development of technologies that reduce energy consumption losses during recent operations.- Initiated and completed development of electronic warfare technologies that are responsive to fleet needs to counter emerging threats.- Initiated and completed flight deck non-skid project.- Initiated disruptive commercial technology studies at varied military, government, and educational institutions.- Initiated thermal management project.- Initiated underwater communication technology development project. <p><i>FY 2010 Plans:</i></p> <ul style="list-style-type: none">- Continue all FY 2009 efforts, less those noted as complete above.- Complete thermal management project.- Complete underwater communication technology development project.- Initiate exploration of technologies to address emergent EW threats for surface and air platforms.- Initiate high risk/high payoff projects to explore significant reduction in TOC. <p><i>FY 2011 Base Plans:</i></p> <ul style="list-style-type: none">- Continue all FY 2010 efforts, less those noted as complete above.- Initiate efforts to develop technologies to meet current or emerging operational needs. | | | | | | |

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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | |
| | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <ul style="list-style-type: none">- Initiate investment in submarine control surface technologies to provide improved maneuvering capabilities and drastically reduce TOC. Programs include but are not limited to the VA class, and Ohio Replacement programs.- Initiate investment in advanced electronic warfare technologies; projects are expected to be classified at a higher level.- Initiate investments in technologies to reduce TOC for the new generation of DDG-51 vessels.- Initiate investment in technologies to improve the new DDG-51, with specific focus on advanced propulsion, and power generation and distribution. | | | | | | |
| TECH SOLUTIONS Tech Solutions develops rapid response S&T solutions to immediate Fleet/Force needs identified by individual warfighters at the deckplate level. Sailors, Marines and Science Advisors submit their issues throughout the year via the Tech Solutions website, email, phone, or chain of command. Projects are initiated as requests come in and are generally completed in approximately twelve to eighteen months. The funding increase in FY 2010 and out is due to the initiation and ramping up of a series of new science and technology programs focused on anti-terrorism and force protection as identified by Science Advisors and the Fleet/Force. FY 2009 Accomplishments: <ul style="list-style-type: none">- Initiated development of projects that provide solutions to problems identified by Science Advisors and the Fleet/Force to address emergent critical needs and developed, demonstrated and delivered technical solutions. FY 2010 Plans: <ul style="list-style-type: none">- Continue all FY 2009 efforts. | | 7.399 | 9.337 | 9.547 | 0.000 | 9.547 |

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| B. Accomplishments/Planned Program (\$ in Millions) | | | | | | | | |
| | | | | FY 2009 | FY 2010 | FY 2011 Base | FY 2011 OCO | FY 2011 Total |
| <p>- Initiate development of projects that provide solutions to problems identified by Science Advisors and the Fleet/Force to address emergent critical needs and develop, demonstrate and deliver technical solutions.</p> <p><i>FY 2011 Base Plans:</i></p> <p>- Continue all FY 2010 efforts.</p> <p>- Initiate development of projects that provide solutions to problems identified by Science Advisors and the Fleet/Force to address emergent critical needs and develop, demonstrate and deliver technical solutions.</p> | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | 59.025 | 52.373 | 53.177 | 0.000 | 53.177 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | |
| N/A | | | | | | | | |
| D. Acquisition Strategy | | | | | | | | |
| N/A | | | | | | | | |
| E. Performance Metrics | | | | | | | | |
| <p>Overall metric goals are to transition the 6.3 advanced technology projects into acquisition programs of record, demonstrate successful technologies to enable new operational concepts, and enable the production of technology products such as proofs of concept and manufacturing packages. The performance of the work funded in this PE is reviewed at several levels to ensure that the investment is relevant and productive. At the macroscopic level, the investment is coordinated with Navy Warfare Development Command and Commander, Fleet Forces Command to address the goals and objectives identified for Sea Trials and LOEs. At the microscopic level, the work funded in this PE is reviewed periodically by the Program Manager to ensure the investment is meeting the goals defined for each project. This review includes feedback collected from the warfighter community on all Sea Trials and LOEs to support the Program Manager's assessment of the value and relevance of each investment. Furthermore, the entire program is reviewed yearly by the Chief of Naval Research.</p> | | | | | | | | |

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| COST (\$ in Millions) | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate | Cost To Complete | Total Cost | | | | | | | | | | | | |
| 9999: <i>Congressional Adds</i> | 6.183 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.183 | | | | | | | | | | | | |
| <p><u>A. Mission Description and Budget Item Justification</u> Congressional Interest Items not included in other Projects.</p> <p><u>B. Accomplishments/Planned Program (\$ in Millions)</u></p> <table border="1"> <thead> <tr> <th></th> <th>FY 2009</th> <th>FY 2010</th> </tr> </thead> <tbody> <tr> <td> Congressional Add: Immersive Naval Officer Training Systems <i>FY 2009 Accomplishments:</i> This effort provided the Navy with the capability to create a new training environment that exposes new officers to life-like situations and stimuli that will prepare them for real world combat and missions in a safe and effective learning environment. </td> <td align="center">2.992</td> <td align="center">0.000</td> </tr> <tr> <td> Congressional Add: Portable Launch and Recovery System for UAV Operat <i>FY 2009 Accomplishments:</i> This effort provided the capability for long-endurance unmanned aerial vehicles to operate from small vessels in support of Navy special warfare teams. </td> <td align="center">3.191</td> <td align="center">0.000</td> </tr> <tr> <td align="right">Congressional Adds Subtotals</td> <td align="center">6.183</td> <td align="center">0.000</td> </tr> </tbody> </table> | | | | | | | | | | | | | FY 2009 | FY 2010 | Congressional Add: Immersive Naval Officer Training Systems <i>FY 2009 Accomplishments:</i> This effort provided the Navy with the capability to create a new training environment that exposes new officers to life-like situations and stimuli that will prepare them for real world combat and missions in a safe and effective learning environment. | 2.992 | 0.000 | Congressional Add: Portable Launch and Recovery System for UAV Operat <i>FY 2009 Accomplishments:</i> This effort provided the capability for long-endurance unmanned aerial vehicles to operate from small vessels in support of Navy special warfare teams. | 3.191 | 0.000 | Congressional Adds Subtotals | 6.183 | 0.000 |
| | FY 2009 | FY 2010 | | | | | | | | | | | | | | | | | | | | | |
| Congressional Add: Immersive Naval Officer Training Systems <i>FY 2009 Accomplishments:</i> This effort provided the Navy with the capability to create a new training environment that exposes new officers to life-like situations and stimuli that will prepare them for real world combat and missions in a safe and effective learning environment. | 2.992 | 0.000 | | | | | | | | | | | | | | | | | | | | | |
| Congressional Add: Portable Launch and Recovery System for UAV Operat <i>FY 2009 Accomplishments:</i> This effort provided the capability for long-endurance unmanned aerial vehicles to operate from small vessels in support of Navy special warfare teams. | 3.191 | 0.000 | | | | | | | | | | | | | | | | | | | | | |
| Congressional Adds Subtotals | 6.183 | 0.000 | | | | | | | | | | | | | | | | | | | | | |

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| <u>C. Other Program Funding Summary (\$ in Millions)</u> N/A | | |
| <u>D. Acquisition Strategy</u> N/A | | |
| <u>E. Performance Metrics</u> Congressional Add. | | |

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