

CLASSIFICATION:

| EXHIBIT R-2, RDT&E Budget Item Justification | | | | | | DATE: February 2008 | |
|--|---------|---------|---------|---|---------|------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-6 | | | | R-1 ITEM NOMENCLATURE 0605853N Management, Technical and International Support | | | |
| COST (\$ in Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Total PE Cost | 43.752 | 48.441 | 51.568 | 52.762 | 53.737 | 55.436 | 56.604 |
| 0149 International Cooperative RDT&E | 3.181 | 4.797 | 4.925 | 4.973 | 4.772 | 5.131 | 5.231 |
| 1767 Naval War College/Center for Naval Warfare Studies | 2.996 | 3.634 | 4.136 | 4.193 | 4.274 | 4.356 | 4.438 |
| 2221 Assessment Program | 21.008 | 21.645 | 22.529 | 22.693 | 23.262 | 23.929 | 24.399 |
| 3025 Mid-Range Financial Improvement Plans | 1.481 | 1.584 | 1.571 | 1.636 | 1.585 | 1.685 | 1.702 |
| 3039 CHENG | 15.086 | 16.781 | 18.407 | 19.267 | 19.844 | 20.335 | 20.834 |
| Quantity of RDT&E Articles | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

International Cooperative RDT&E: This project provides program management, execution, and support to implement a broad range of cooperative Naval Research and Development, Test and Evaluation (RDT&E) initiatives to improve coalition interoperability, harmonize U.S. Navy requirements with allied and friendly nations, and identify cooperative international opportunities. In addition, it develops coordinated approaches in consultation with Combatant Commanders (COCOMs), Chief of Naval Operations (CNO), Office of Naval Research (ONR) and Maritime Partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), cooperative acquisition programs, and identifies technology to support the Global Maritime Partnership Initiative. The project scope in FY07 was expanded from primarily North Atlantic Treaty Organization (NATO)-centric to include a Maritime Domain Awareness/Maritime Situational Awareness (MDA/MSA), Global War on Terrorism (GWOT), and Irregular War emphasis. Relationships have been, and are being initiated with a greatly expanded and diverse group of maritime countries, particularly those with nascent and littoral navies, located in new regions critical to U.S. security. The project was restructured internally to both maintain ongoing international relationships and current projects, while facilitating support to a growing global network of maritime nations under MDA/MSA and increasing Irregular Warfare requirements.

Naval War College (NWC) research, analysis and gaming activities serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, Joint and Interagency communities. These efforts generate strategic and operational alternatives, quantitative analysis, war gaming and political military assessments, and provide recommendations to the Chief of Naval Operations (CNO) and Navy Component Commanders regarding the formulation and execution of options for the President of the United States.

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| <p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION (Cont.):</p> <p>Assessment Program: Provides capability based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect warfighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. Manages Office of the Chief of Naval Operations (OPNAV) support to Office of the Secretary of Defense (OSD)/Navy's analytic agenda. Provides overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance for Planning, Programming and Budgeting Execution (PPBE) which provides gap analysis and investment strategy and Total Obligation Authority (TOA) allocation. Provides independent capability analysis directly to Chief of Naval Operations (CNO) and assists in structuring follow-on OPNAV analyses. The program coordinates Navy's position for the Enhanced Planning Process and conducts Net Assessments. This program serves as the lead campaign analysis for Office of the Chief of Naval Operations (OPNAV) and supports Concept of Operations (CONOPS) analysis and Chief of Naval Operations Investment Strategy assessments, all of which prove analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding the integration of all Navy warfare and support requirements. This program is dual-hated as the head of CNO's Capability Analysis Group and serves the CNO directly as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both warfighting and warfighting support programs. Program supports the world class modeling efforts to attain a level of modeling and simulation capability that is world class and establishes OPNAV as a leader in the Department of Defense (DoD) modeling and simulation community. Provides the CNO alternatives in assessing the implications imbedded within resource decisions in a quantified context of costs versus capability versus risk. This program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. The Assessment Program develops tools and analytical methodologies that assist in evaluating Navy programs and provides technical leadership for the analysis functional area of Naval Modeling and Simulation.</p> <p>Capital Asset Management System: This project supports the Research Development Test & Evaluation, Navy (RDT&E,N) and Office of Naval Research (ONR) portion of the larger DoD and Navy-wide effort to implement the Financial Improvement Plan (FIP). Corrective actions required to resolve known deficiencies and determine resource requirements (people and systems) have been identified. Funding beyond FY 2007 is for the sustainment of the clean and auditable statements for RDT&E,N/ONR.</p> <p>CHENG: funds the Assistant Secretary of the Navy for Research, Development and Acquisition (ASN RD&A) Chief Engineer (RDA CHENG) to develop and implement architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Department of Navy (DON) to engineer and field Navy and Marine Corps combat systems, weapon systems, and command, control, communication, computer and intelligence (C4I) programs that must operate as family-of-systems (FoS) or system-of-systems (SoS). The focus of this project is on identifying the functions, relationships, and connections between systems at both the force and unit level and across warfare mission areas, and encompasses three key elements: Systems Engineering to provide the framework for making engineering decisions by warfighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DON, OSD and Joint integration and interoperability and Anti-Tamper requirements. Program increase in FY 2007 implements DON Anti-Tamper program to protect critical technology investments.</p> | |

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APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

RDT&E, N / BA-6

0605853N Management, Technical and International Support

C. PROGRAM CHANGE SUMMARY:

| Funding: | FY 2007 | FY 2008 | FY 2009 |
|-------------------|---------|---------|---------|
| FY08/09 PB Submit | 45.126 | 49.498 | 50.311 |
| FY09 PB Submit | 43.752 | 48.441 | 51.568 |
| Total Adjustments | -1.374 | -1.057 | 1.257 |

Summary of Adjustments:

| | | | |
|---------------------------------|--------|--------|-------|
| SBIR | -0.913 | -0.629 | 0.000 |
| Misc. Congressional Adjustments | -0.001 | -0.428 | 0.000 |
| Miscellaneous Adjustments | -0.460 | 0.000 | 1.257 |
| | -1.374 | -1.057 | 1.257 |

Schedule:

Not Applicable

Technical:

Not Applicable

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| EXHIBIT R-2a, RDT&E Project Justification | | | | DATE: February 2008 | | | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | | PROJECT NUMBER AND NAME 0149 INTERNATIONAL COOP RDT&E | | | | |
| COST (\$ in Millions) | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | | 3.181 | 4.797 | 4.925 | 4.973 | 4.772 | 5.131 | 5.231 |
| RDT&E Articles Qty | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The increase from FY07 to FY08 will facilitate the expanding support in Global Maritime Partnership Initiatives including cooperative exchanges and projects contributing to Maritime Domain Awareness/Maritime Situational Awareness (MDA/MSA), Global War on Terrorism (GWOT), Maritime Safety and Security and Irregular Warfare. Funds will be used to promote projects that fill capability gaps in the near-term and that develop promising technologies.

This project provides program management, execution, and support to implement a broad range of cooperative Naval Research and Development, Test and Evaluation (RDT&E) initiatives to improve coalition interoperability, harmonize U.S. Navy requirements with allied and friendly nations, and identify cooperative international opportunities. In addition, it develops coordinated approaches in consultation with Combatant Commanders (COCOMs), Chief of Naval Operations (CNO), Office of Naval Research (ONR) and Maritime Partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), cooperative acquisition programs, and identifies technology to support the Global Maritime Partnership Initiative.

The project scope in FY07 was expanded from primarily North Atlantic Treaty Organization (NATO)-centric to include a Maritime Domain Awareness/Maritime Situational Awareness (MDA/MSA), Global War on Terrorism (GWOT), and Irregular War emphasis. Relationships have been, and are being initiated with a greatly expanded and diverse group of maritime countries, particularly those with nascent and littoral navies, located in new regions critical to U.S. security. The project was restructured internally to both maintain ongoing international relationships and current projects, while facilitating support to a growing global network of maritime nations under MDA/MSA and increasing Irregular Warfare requirements.

On-going cooperative RDT&E programs, projects and exchanges are pursued to identify cooperative acquisition programs, enhance Irregular Warfare efforts and MDA/MSA development, fill capability gaps, improve U.S. and coalition interoperability, and set standardization with international partners. Such efforts have resulted in:

1. Negotiating and developing approximately 57 International RDT&E Agreements annually with allied and friendly nations;
2. Executing over 300 Information Exchange Annexes (IEAs) with foreign partners;
3. Improving IEA information dissemination with allied and friendly countries and within Department of the Navy (DoN);
4. Leading Office of the Chief of Naval Operations (OPNAV) input to Office of the Under Secretary of Defense (OUSD) Acquisition, Technology, and Logistics (AT&L) Foreign Comparative Test (FCT) Program, Coalition Warfare Program, and Technology Transfer Security Assistance Review Boards (TTSARB).
5. Represent the US Navy in Office of the Secretary of Defense (OSD)-directed Armaments Cooperation Forums, including the Conference of NATO Armaments Directors' groups (NATO Naval Armaments Group (NNAG)), and Senior National Representative-Maritime (SNR-M);
6. Leading the Engineering and Scientist Exchange Program (ESEP);
7. Funding of various international support databases including Information/Data Exchange Agreements, ESEP and Project Agreements/Memorandums of Understanding.

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| <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION (continued):</p> <p>Performance Metrics: The Navy International Cooperative RDT&E Project 0149 supports the implementation of many international cooperative program activities throughout the Department of the Navy (DoN) RDT&E communities. The project funds DoN participation in NATO and OSD-lead Armaments Cooperation as well as DoN-lead international cooperation that promote coalition interoperability and set standards with international partners. The focused activities under Project 0149 maximize the DoN's efforts by leveraging international technologies and funding to fill capabilities gaps, gain access to foreign research and testing data, and avoid duplication of research and development efforts. The performance goals/metrics are, in cooperation with Maritime Partner nations, to set and harmonize requirements, utilize respective technologies, encourage financial contributions and facilities use, and support forums and work that reduce DoN funding requirements.</p> | | |

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|---------------------------|-------|-------|-------|
| International Coop | 3.181 | 4.797 | 4.925 |

FY07:

- Initiated and supported Maritime Theater Missile Defense Forum that obtained \$9.6M in R&D monies from partner nation contributions. The multi-lateral forum (7 Maritime Partner countries and the US Navy) entered into four International Agreements (Battle Management, Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant, Open Architecture and Modeling and Simulation (M&S).
- Funded various evolving potential cooperative exchanges and projects contributing to MDA/MSA and Irregular Warfare including Multi-Mission Aircraft, Broad Area Maritime Surveillance, Submarine Littoral Weapons System, and Swimmer Engagement.
- Initiated and linked up US Navy International Bench, a new internet-based connector and composeable tool to enhance collaboration between US military and agency personnel engaged in international work.
- Maintained internal DoN international databases to support international cooperative activities and projects with allies. Assessed functional ability to integrate DoN international databases across OPNAV departments to improve leveraging of program dollars, fielding of better products and speeding delivery.
- Continued to lead US Navy's participation in OUSD AT&L's Foreign Comparative Test (FCT) Program and the Coalition Warfare Program (CWP) selection processes to meet emerging military capability requirements.
- Continued execution of over 300 Information/Data Exchange Agreements (IEA/DEA) with more than 30 countries.
- Continued execution and support of placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP).
- Coordinated US Navy support to OUSD (AT&L) International Cooperation office.
- Supported new CNO-initiated Strategy Dialogue with Australia, including Air and Expeditionary Warfare Working Groups for mutual development of requirements and projects.
- Supported NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including Harbor Protection, Electronic Warfare, and Defense Against Terrorism (DAT) trials.

FY 08:

- Continue all efforts of FY 07.

FY 09:

- Continue all efforts of FY 08.

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C. OTHER PROGRAM FUNDING SUMMARY:

Not Applicable

D. ACQUISITION STRATEGY:

Not Applicable

E. MAJOR PERFORMERS

Not Applicable

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| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | | | PROJECT NUMBER AND NAME 1767 NAVAL WAR COLLEGE STRATEGIC STUDIES SUPT | | |
| COST (\$ in Millions) | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 |
| Project Cost | | 2.996 | 3.634 | 4.136 | 4.193 | 4.274 | 4.356 |
| RDT&E Articles Qty | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Naval War College (NWC) research, analysis and gaming activities serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, Joint and Interagency communities. These efforts generate strategic and operational alternatives, tactical imperatives, quantitative analysis, war gaming, political-military assessments, and provide recommendations to the Chief of Naval Operations (CNO), Fleet Commanders and numbered Fleet Commanders regarding the formulation and execution of maritime options for the President of the United States.

Performance Metrics:

This project provides research, analysis and war gaming to meet the needs of the Secretary of the Navy, the Chief of Naval Operations, and Fleet Commanders. Performance is measured in terms of both the quantity and quality of war games, analysis and the extent to which demand for war games and research products can be accommodated within funding levels. Results of research products and war games are evaluated through customer feedback and the extent to which findings are incorporated into follow-on research and practical applications such as Navy doctrine, operational tactics, and programming decisions made during the Planning, Programming, Budgeting & Execution (PPBE) process.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|--------------------------|-------|-------|-------|
| Strategic Studies | 1.348 | 1.721 | 1.871 |

Naval War College (NWC) conducts research in strategic studies in response to tasking from the Secretary of the Navy (SECNAV), CNO, Fleet Commanders, numbered Fleet Commanders, and Combatant Commanders. NWC also hosts the activities of the Chief of Naval Operation's (CNO's) Strategic Studies Group (SSG). The CNO SSG is a select group of senior naval officers handpicked by the CNO, who report to him in the development of revolutionary warfighting and operational concepts, such as Sea Strike and FORCEnet.

FY07:
 - Continued to conduct research and analysis projects and provide supporting events for Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Navy Component Commanders, and the Combatant Commanders. Projects were in direct support of warfighting analysis requirements for numbered fleet commanders and were expanded to include Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean.
 - Continued to support the OPNAV Staff on the Proliferation Security Initiative (PSI) and supported Office of Naval Intelligence (ONI) on Chinese maritime developments.
 - CNO SSG completed tasking from the CNO to SSG XXVI to address "fighting in cyberspace in 2030."

FY08:
 - Continue to conduct research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Navy Component Commanders, and the Combatant Commanders. Projects in direct support of numbered fleet commanders are expected to grow in scope.
 - Continue to support the OPNAV Staff on the PSI and support ONI on Chinese maritime developments.
 - Initiate revolutionary operating and warfighting concepts for 2035 and beyond under CNO tasking.

FY09:
 - Continue all efforts of FY08.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|---------------------------------|-------|-------|-------|
| Naval War Gaming Support | 0.907 | 1.058 | 1.090 |

NWC conducts strategic and operational war gaming and research for OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Each year, 50-60 major war games and associated events provide support to efforts that explore and analyze military, political, informational and economic aspects of differing strategic and operational scenarios and tactical imperatives.

FY07:

- Continued to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders.
- Continued to conduct operational research and experimentation for Joint Force Maritime Component Commander (JFMCC) concept development via JFMCC Center of Excellence.
- Continued to conduct analytical research on key operational challenges such as theater Anti Submarine Warfare (ASW), submarine payloads, seaborne maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and Sea Basing.
- Continued to conduct research supporting war games co-sponsored with Naval Warfare Development Command (NWDC) and US Joint Forces Command.
- Continued to develop advanced war gaming analytical methods and tools.
- Continued to conduct analytic research on effects based operations and systems thinking for Naval Forces Europe (NAVEUR) and Navy Component for Central Command (NAVCENT).
- Continued to conduct research in advanced adaptive Command and Control (C2) for Office of Naval Research (ONR).
- Continued to develop educational materials for Naval Operations Planners Course (NOPC).
- Continued to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for Office of the Secretary of Defense (OSD).
- Continued to support CNO Maritime Strategy and operational concepts through analytical war gaming.

FY08:

- Continue all efforts of FY07.
- Initiate Maritime Operations Training for officer and enlisted personnel.

FY09:

- Continue all efforts of FY08.
- Initiate Maritime Operations Training for officer and enlisted personnel to raise throughput.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|--------------------------------------|-------|-------|-------|
| Warfare Analysis and Research | 0.266 | 0.414 | 0.424 |

NWC supports senior decision-makers from the Department of Defense, Department of the Navy, the numbered Fleets, Fleet Commanders and Combatant Commanders in reaching well-informed, objective decisions on strategic, operational and programmatic issues through collaborative research which integrates traditional research and analysis with advanced decision support tools. Each year, 30-40 events provide support to efforts that explore and analyze a wide range of issues and their associated factors which address future needs of the Service. These issues and decisions can then be further tested and evaluated in conjunction with our wargaming center.

FY07:

- Continued to conduct major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. 30-40 major decision events were conducted.
- Conducted analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness, maritime operations headquarters, interconnectivity, and multi-service force deployment.
- Continued additional evaluation of concepts and decision events in conjunction with war gaming center.
- Continued to provide direct support to NWC student research groups and war gaming.

FY08:

- Continue all efforts of FY07.

FY09:

- Continue all efforts of FY08.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|--------------------------------------|-------|-------|-------|
| NWC Student Research Projects | 0.150 | 0.149 | 0.152 |

Selected, top performing Naval War College (NWC) students to conduct focused research and analysis of current and future strategic and operational challenges and tactical imperatives. These students are organized under the supervision of the Mahan Scholars Program and the Halsey Group Program.

- FY07:
- Conducted focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Group and Mahan Scholars programs.
 - Conducted research targeted at the strategic and policy level decision making within China.
 - Research groups continued to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command (CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continued in those areas above, and was expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level.
 - Conducted research for Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College.

- FY08:
- Continue all efforts of FY07.

- FY09:
- Continue all efforts of FY08.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|---|-------|-------|-------|
| Maritime Headquarters (MHQ)/Maritime Operations (MOC) Analysis | 0.000 | 0.292 | 0.599 |

Formerly JFMCC/Worldwide Naval Component Commanders (WNCC). Naval War College (NWC) conducts research and analysis at the operational level of war, including direct support for the Maritime Headquarters (MHQ) with Maritime Operations Center (MOC) and Combined/Joint Forces Maritime Component Commander (C/JFMCC) activities. These activities include support for concept and doctrine development of numbered fleet war games, exercises, education, research and analysis. NWC is responsible for development of Professional Military Education for Naval Component Commanders and Numbered Fleet Staff personnel, and the Numbered Fleet Commander, including education and research initiatives in support of concept of operations development, training and C/JFMCC advisory and assist team.

FY07: Not Applicable

FY08:

- Conduct research and analysis projects and provide support of MHQ with MOC and C/JFMCC activities and direct support for the numbered Fleet Commanders. Efforts include assist team visits in support of analysis and definition of maritime operational processes, including execution battle management, tasking subordinates, operational level planning and operational/effects assessment.

FY09:

- Continue all efforts of FY08.

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|--------------------------|-------|-------|-------|
| Maritime Strategy | 0.325 | 0.000 | 0.000 |

Naval War College (NWC) has been directed by OPNAV N3/5 to support the development of a new maritime strategy, as called for by the CNO. NWC will serve as the lead organization to coordinate the efforts of the Naval Postgraduate School, the US Naval Academy and to integrate the results of workshops and conferences held by a range of outside agencies.

FY07:

- Conducted two major war games and two conferences to support the research and analysis effort. In addition, NWC carried out a program of national and international outreach as an integral part of the strategy development process. Included in this process were a series of 10 public seminars around the nation, and several high-level executive conferences to vet and socialize the maritime strategy process and to seek additional ideas from key policy makers, industry, the American public and selected elements of the international community.

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C. OTHER PROGRAM FUNDING SUMMARY:

Not Applicable

D. ACQUISITION STRATEGY:

Not Applicable

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| COST (\$ in Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY2011 | FY2012 | FY2013 |
| Project Cost | 21.008 | 21.645 | 22.529 | 22.693 | 23.262 | 23.929 | 24.399 |
| RDT&E Articles Qty | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Project 2221, Assessment Program, provides capability based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect warfighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. Manages Office of the Chief of Naval Operations (OPNAV) support to Office of the Secretary of Defense (OSD)/Navy's analytic agenda. Provides overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance for Planning, Programming and Budgeting Execution (PPBE) which provides gap analysis and investment strategy and Total Obligation Authority (TOA) allocation. Provides independent capability analysis directly to Chief of Naval Operations (CNO) and assists in structuring follow-on OPNAV analyses. The program coordinates Navy's position for the Enhanced Planning Process and conducts Net Assessments. This program serves as the lead campaign analysis for Office of the Chief of Naval Operations (OPNAV) and supports Concept of Operations (CONOPS) analysis and Chief of Naval Operations Investment Strategy assessments, all of which provide analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding the integration of all Navy warfare and support requirements. This program is dual-hatted as the head of CNO's Capability Analysis Group and serves the CNO directly as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both warfighting and warfighting support programs. Program supports the world class modeling efforts to attain a level of modeling and simulation capability that is world class and establishes OPNAV as a leader in the Department of Defense (DoD) modeling and simulation community. Provides the CNO alternatives in assessing the implications imbedded within resource decisions in a quantified context of costs versus capability versus risk. This program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. The Assessment Program develops tools and analytical methodologies that assist in evaluating Navy programs and provides technical leadership for the analysis functional area of Naval Modeling and Simulation.

CLASSIFICATION:

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| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 2221 Assessment Program |

B. Accomplishments/Planned Program

| | FY 07 | FY 08 | FY 09 |
|--------------------------------|-------|-------|-------|
| Navy Standard Scenarios | 1.451 | 1.485 | 1.520 |

FY07:
Developed, updated and maintained detailed level Navy Standard scenarios based on Defense Planning Guidance. Developed alternative scenarios in support of upcoming Quadrennial Defense Review (QDR), Joint studies, and Navy resource analyses. Developed, updated and maintained analytic baselines for the Major Combat Operations (MCO) based on Defense Planning Guidance.

FY08:
Continue to develop, update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance. Continue to develop alternative scenarios in support of Quadrennial Defense Review (QDR), Joint studies, and Navy resource analyses. Continue to develop, update and maintain analytic baselines for the Major Combat Operations (MCO) based on Defense Planning Guidance.

FY09:
Continue to develop, update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance. Continue to develop alternative scenarios in support of Quadrennial Defense Review (QDR), Joint studies, and Navy resource analyses. Continue to develop, update and maintain analytic baselines for the Major Combat Operations (MCO) based on Defense Planning Guidance.

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B. Accomplishments/Planned Program

| | FY 07 | FY 08 | FY 09 |
|-------------------------------------|-------|-------|-------|
| Capability Based Assessments | 2.732 | 2.797 | 2.864 |

FY 07: Assessed capability sponsors' products for Navy senior leadership decision forums. Performed collaborative assessment with capability sponsors. Proactively participated in Capability Sponsors' Integrated Processing Teams (IPTs). Continued to present opposing analytically-based points of view to the CNO and Navy senior leadership. Provided analytically-based decision recommendations to CNO for both warfighting and support areas. Developed CNO Investment strategy recommendations and performed assessments for Program Review (PR)-09 and Program Objective Memorandum (POM)-10. Assessed capability sponsor's products for senior leadership decision forums. Conducted Verification, Validation & Accreditation (VV&A) of warfare, performance, and pricing models. Conducted Global War on Terrorism (GWOT) Capabilities-Based Assessment that provided a rapid and scalable process to utilize a Concept of Operation (CONOPS) and developed investment strategy and a capability roadmap. Conducted Tactical Aircraft (TACAIR) Recapitalization alternatives and Theater Ballistic Missile Defense (TBMD) cost capability trade off assessments. Conducted independent assessment of Anti-Submarine Warfare (ASW). Conducted weapons safety and sea basing capabilities assessments. Conducted Intelligence-Surveillance-Reconnaissance (ISR) and Meteorological and Oceanographic (METOC) assessment to determine the optimal mix of naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support Major Combat Operations (MCOs), the GWOT, and intelligence preparation of the environment for both MCOs and GWOT. Performed Capabilities-Based Assessments (CBAs) to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework.

FY 08: Continue to assess capability sponsors' products for Navy senior leadership decision forums. Continue to perform collaborative assessment with capability sponsors. Continue to proactively participate in Capability Sponsors' Integrated Processing Teams (IPTs). Continue to present opposing analytically-based points of view to the CNO and Navy senior leadership. Continue to provide analytically-based decision recommendations to CNO for both warfighting and support areas. Continue to develop CNO Investment strategy recommendations and perform assessments for Program Review-09 and POM-10. Continue to assess capability sponsor's products for senior leadership decision forums. Continue to conduct Verification, Validation & Accreditation (VV&A) of warfare, performance, and pricing models. Continue to conduct Global War on Terrorism (GWOT) Capabilities-Based Assessment that provided a rapid and scalable process to utilize a Concept of Operation (CONOPS) and develop investment strategy and a capability roadmap. Continue to conduct Tactical Aircraft (TACAIR) Recapitalization alternatives and Theater Ballistic Missile Defense (TBMD) cost capability trade off assessments. Continue to conduct independent assessment of Anti-Submarine Warfare (ASW). Continue to conduct weapons safety and sea basing capabilities assessments. Continue to conduct Intelligence-Surveillance-Reconnaissance (ISR) and Meteorological and Oceanographic (METOC) assessment to determine the optimal mix of naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support Major Combat Operations (MCOs), the GWOT, and intelligence preparation of the environment for both MCOs and GWOT. Continue to perform Capabilities-Based Assessments (CBAs) to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework.

FY09: Continue to assess capability sponsors' products for Navy senior leadership decision forums. Continue to perform collaborative assessment with capability sponsors. Continue to proactively participate in Capability Sponsors' Integrated Processing Teams (IPTs). Continue to present opposing analytically-based points of view to the CNO and Navy senior leadership. Continue to provide analytically-based decision recommendations to CNO for both warfighting and support areas. Continue to develop CNO Investment strategy recommendations and perform assessments for Program Review-11 and POM-12. Continue to assess capability sponsor's products for senior leadership decision forums. Continue to conduct Verification, Validation & Accreditation (VV&A) of warfare, performance, and pricing models. Continue to conduct Global War on Terrorism (GWOT) Capabilities-Based Assessment that provided a rapid and scalable process to utilize a Concept of Operation (CONOPS) and develop investment strategy and a capability roadmap. Continue to conduct Tactical Aircraft (TACAIR) Recapitalization alternatives and Theater Ballistic Missile Defense (TBMD) cost capability trade off assessments. Continue to conduct independent assessment of Anti-Submarine Warfare (ASW). Continue to conduct weapons safety and sea basing capabilities assessments. Continue to conduct Intelligence-Surveillance-Reconnaissance (ISR) and Meteorological and Oceanographic (METOC) assessment to determine the optimal mix of naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support Major Combat Operations (MCOs), the GWOT, and intelligence preparation of the environment for both MCOs and GWOT. Continue to perform Capabilities-Based Assessments (CBAs) to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework.

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| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 2221 Assessment Program |

B. Accomplishments/Planned Program

| | FY07 | FY08 | FY09 |
|--|-------|-------|-------|
| Campaign Analysis - Modeling and Simulation | 5.891 | 6.168 | 6.832 |

FY07: Developed and maintained common baselines from which campaign excursions and mission-level analyses are executed. Identified, developed, and improved data and modeling. Continued to lead Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Provided coordination across the Navy. Continued to broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data. Led campaign analysis for Office of the Chief of Naval Operations (OPNAV). Conducted modeling and simulation support for ongoing OPNAV missile defense analysis requirements.

FY08: Continue to develop and maintain common baselines from which campaign excursions and mission-level analyses are executed. Identify, develop, and improve data and modeling. Continue to lead Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Continue to provide coordination across the Navy. Continue to broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data. Continue to lead campaign analysis for Office of the Chief of Naval Operations (OPNAV). Continue to conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements.

FY09: Continue to develop and maintain common baselines from which campaign excursions and mission-level analyses are executed. Identify, develop, and improve data and modeling. Continue to lead Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Continue to provide coordination across the Navy. Continue to broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data. Continue to lead campaign analysis for Office of the Chief of Naval Operations (OPNAV). Continue to conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements.

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B. Accomplishments/Planned Program (Cont.)

| | FY 07 | FY 08 | FY 09 |
|--|-------|-------|-------|
| OSD/Joint Staff Study Analysis & Assessment | 1.772 | 1.814 | 1.857 |

FY07: Coordinated/led Office of the Secretary of Defense (OSD)/Navy's Analytic Agenda in Defense Planning Scenario (DPS), Multi-Service Force Deployment (MSFD), Enhanced Planning Process (EPP), Strategic Planning Guidance (SPG), and participated in Capability Sponsors' Integrated Processing Teams (IPTs). Provided overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance. Provided analytically-based decision recommendations to Chief of Naval Operations (CNO) for Joint warfighting and support areas. Conducted net assessments and provided independent analytic support to Navy leadership in conjunction with various executive level decision forums. Served as the Navy's lead to Joint Requirements Oversight Council (JROC), Joint Capabilities Board (JCB), and Functional Capabilities Board (FCB). Provided the lead requirements and acquisition for Office of the Chief Naval Operations (OPNAV). Coordinated/led Navy role in Defense Planning Guidance (DPG), Program Decision Memoranda (PDM), Quadrennial Defense Review (QDR), and Defense Science Board (DSB) studies. Participated in Office of the Secretary of Defense (OSD) and Joint Staff analysis assessment and provided structure for coordination across the Navy. Coordinated and supported Joint Analytical Model Improvement Program (JAMIP).

FY08: Continue to coordinate/lead Office of the Secretary of Defense (OSD)/Navy's Analytic Agenda in Defense Planning Scenario (DPS), Multi-Service Force Deployment (MSFD), Enhanced Planning Process (EPP), Strategic Planning Guidance (SPG), and participate in Capability Sponsors' Integrated Processing Teams (IPTs). Continue to provide overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance. Continue to provide analytically-based decision recommendations to Chief of Naval Operations (CNO) for Joint warfighting and support areas. Continue to conduct net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums. Continue to serve as the Navy's lead to Joint Requirements Oversight Council (JROC), Joint Capabilities Board (JCB), and Functional Capabilities Board (FCB). Continue to provide the lead requirements and acquisition for Office of the Chief Naval Operations (OPNAV). Continue to coordinate/lead Navy role in Defense Planning Guidance (DPG), Program Decision Memoranda (PDM), Quadrennial Defense Review (QDR), and Defense Science Board (DSB) studies. Continue to participate in Office of the Secretary of Defense (OSD) and Joint Staff analysis assessment and provide structure for coordination across the Navy. Continued to coordinate and support Joint Analytical Model Improvement Program (JAMIP).

FY09: Continue to coordinate/lead Office of the Secretary of Defense (OSD)/Navy's Analytic Agenda in Defense Planning Scenario (DPS), Multi-Service Force Deployment (MSFD), Enhanced Planning Process (EPP), Strategic Planning Guidance (SPG), and participate in Capability Sponsors' Integrated Processing Teams (IPTs). Continue to provide overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance. Continue to provide analytically-based decision recommendations to Chief of Naval Operations (CNO) for Joint warfighting and support areas. Continue to conduct net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums. Continue to serve as the Navy's lead to Joint Requirements Oversight Council (JROC), Joint Capabilities Board (JCB), and Functional Capabilities Board (FCB). Continue to provide the lead requirements and acquisition for Office of the Chief Naval Operations (OPNAV). Continue to coordinate/lead Navy role in Defense Planning Guidance (DPG), Program Decision Memoranda (PDM), Quadrennial Defense Review (QDR), and Defense Science Board (DSB) studies. Continued to participate in Office of the Secretary of Defense (OSD) and Joint Staff analysis assessment and provide structure for coordination across the Navy. Continued to coordinate and support Joint Analytical Model Improvement Program (JAMIP).

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| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 2221 Assessment Program |

B. Accomplishments/Planned Program (Cont.)

| | FY 07 | FY 08 | FY 09 |
|--|-------|-------|-------|
| World Class Modeling, Simulation, and Capability Analysis | 9.162 | 9.381 | 9.456 |

FY 2007:
 Provided the Navy with concise and innovative Modeling and Simulation (M&S) analyses and assessment to help optimize Navy Programs and investment decisions. Supported next generation research that emphasizes combat modeling, simulation, war gaming, and analysis in support of strategic, operational, and resource decision making and emphasizes the development of pricing performance models that relate investments and manpower to output performance and readiness. Evaluated new models that are able to capture Command, Control, Communication, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR) interaction with sea based forces, and the challenges of new form of threat including terrorist, disruptive, and catastrophic. Supported Fleet readiness and logistics M&S. Conducted Verification, Validation, and Accreditation (VV&A) of select Navy models. Improved the ability to model emerging security challenges and operations concepts (Irregular, Catastrophic, Disruptive challenges). Developed optimization models that work across multiple warfare areas. Improved the traceability of data through the modeling hierarchy. Refined the linkages between cost and mission performance in performance-modeled acquisition programs. Conducted Joint mission warfare M&S in the Sea Strike, FORCENet Sea Shield, and Sea Basing mission areas. Conducted mission level warfare M&S of Joint Capability Areas.

FY 2008:
 Continue to provide the Navy with concise and innovative Modeling and Simulation (M&S) analyses and assessment to help optimize Navy Programs and investment decisions. Continue to support next generation research that emphasizes combat modeling, simulation, war gaming, and analysis in support of strategic, operational, and resource decision making and emphasizes the development of pricing performance models that relate investments and manpower to output performance and readiness. Continue to evaluate new models that are able to capture Command, Control, Communication, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR) interaction with sea based forces, and the challenges of new form of threat including terrorist, disruptive, and catastrophic. Continue to support Fleet readiness and logistics M&S. Continue to conduct Verification, Validation, and Accreditation (VV&A) of select Navy models. Continue to improve the ability to model emerging security challenges and operations concepts (Irregular, Catastrophic, Disruptive challenges). Continue to develop optimization models that work across multiple warfare areas. Continue to improve the traceability of data through the modeling hierarchy. Continue to refine the linkages between cost and mission performance in performance-modeled acquisition programs. Continue to conduct Joint mission warfare M&S in the Sea Strike, FORCENet Sea Shield, and Sea Basing mission areas. Continue to conduct mission level warfare M&S of Joint Capability Areas.

FY 2009:
 Continue to provide the Navy with concise and innovative M&S analyses and assessment to help optimize Navy Programs and investment decisions. Continue to support next generation research that emphasizes combat modeling, simulation, war gaming, and analysis in support of strategic, operational, and resource decision making and emphasizes the development of pricing performance models that relate investments and manpower to output performance and readiness. Continue to evaluate new models that are able to capture Command, Control, Communication, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR) interaction with sea based forces, and the challenges of new form of threat including terrorist, disruptive, and catastrophic. Continue to support Fleet readiness and logistics M&S. Continue to conduct Verification, Validation, and Accreditation (VV&A) of select Navy models. Continue to improve the ability to model emerging security challenges and operations concepts (Irregular, Catastrophic, Disruptive challenges). Continue to develop optimization models that work across multiple warfare areas. Continue to improve the traceability of data through the modeling hierarchy. Continue to refine the linkages between cost and mission performance in performance-modeled acquisition programs. Continue to conduct Joint mission warfare M&S in the Sea Strike, FORCENet Sea Shield, and Sea Basing mission areas. Continue to conduct mission level warfare M&S of Joint Capability Areas.

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| EXHIBIT R-2a, RDT&E Project Justification | | | | | DATE: February 2008 | | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | | | PROJECT NUMBER AND NAME 3025 MID-RANGE FINANCIAL IMPROVEMENT PLANS | | | |
| COST (\$ in Millions) | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | | 1.481 | 1.584 | 1.571 | 1.636 | 1.585 | 1.685 | 1.702 |
| RDT&E Articles Qty | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

One of DoD's and Navy's priority goals is to gain a clean and auditable financial statement by FY 2007. The Office of the Secretary of Defense (OSD) Comptroller, in his 8 August 2003 memorandum, directed the Military Departments and Defense Agencies, in coordination with the Defense Finance and Accounting Service (DFAS), to prepare a comprehensive mid-range financial improvement plan to identify measurable steps to ensure each material line is auditable, and ensure all major deficiencies are resolved.

This project supports the Research, Development, Test and Evaluation, Navy (RDT&E,N) and Office of Naval Research (ONR) portion of the larger DoD and Navy-wide effort to implement the Financial Improvement Plan (FIP). Corrective actions required to resolve known deficiencies and determine resource requirements (people and systems) have been identified. Funding beyond FY 2007 is for the sustainment of the clean and auditable statement for RDT&E,N.

Performance Metrics:

Financial records must become compliant in accordance with the Chief Financial Officers Act.

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| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 3025 MID-RANGE FINANCIAL IMPROVEMENT PLANS |
|---|---|---|

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

| | FY 07 | FY 08 | FY 09 |
|-------------------------------|-------|-------|-------|
| Financial Improvements | 1.481 | 1.584 | 1.571 |

FY07:

- Continued posting obligations within the reporting period in which they were incurred.
- Continued expanding the practice of having major contracting activities post awards electronically to the Standard Accounting and Reporting System (STARS).
- Continued performing obligation validations to ensure that posted obligations were accurate.
- Continued revising the accounts receivable process to more accurately record collections.
- Continued monitoring duplication in vendor pay accounting system and STARS one pay, as invoices were settled.
- Continued eliminating problem disbursements older than 120 days, narrowing to 60 days, and potentially narrowing even further.
- Continued discovery phase for the Financial Improvement Program (FIP).
- Prepared and submitted validation packages containing financial business processes for the Naval Research Laboratory (NRL).
- Initiated the update of Wide Area Workflow (WAWF) in order to allow Grants and Intergovernmental Personnel Agreements (IPA) invoices to be processed using WAWF.
- Initiated the A-123 process for the Office of Naval Research (ONR). Appendix A of the Office of Management and Budget Circular No. A-123 requires that Federal agencies take responsibility for conducting a rigorous assessment of internal controls over financial reporting.

FY08:

- Continue all efforts of FY07.

FY09:

- Continue all efforts of FY08.

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| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 3025 MID-RANGE FINANCIAL IMPROVEMENT PLANS |
| <p>C. OTHER PROGRAM FUNDING SUMMARY:</p> <p>Navy Related RDT&E: PE 0605013N (Information Technology Development) PE 0605861N (RDT&E Science and Technology Management)</p> <p>Non-Navy Related RDT&E: Not Applicable</p> <p>D. ACQUISITION STRATEGY:</p> <p>Not Applicable</p> | | |

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| EXHIBIT R-2a, RDT&E Project Justification | | | | | DATE: February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | | PROJECT NUMBER AND NAME 3039 CHENG | | | |
| COST (\$ in Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | 15.086 | 16.781 | 18.407 | 19.267 | 19.844 | 20.335 | 20.834 |
| RDT&E Articles Qty | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Project 3039 funds the Assistant Secretary of the Navy (ASN) for Research, Development and Acquisition (RD&A), ASN RD&A Chief Engineer (RDA CHENG) to develop and implement architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Department of Navy (DoN) to engineer and field Navy and Marine Corps combat systems, weapon systems, and command, control, communications, computers and intelligence (C4I) programs that must operate as family-of-systems (FoS) or system-of-systems (SoS). The focus of this project is on identifying the functions, relationships, and connections between systems at both the force and unit level and across warfare mission areas, and encompasses three key elements: Systems Engineering to provide the framework for making engineering decisions by warfighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DoN, Office of the Secretary of Defense (OSD) and Joint integration and interoperability and Anti-Tamper initiatives.

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B. Accomplishments/Planned Program

| | FY 2007 | FY 2008 | FY 2009 |
|--|---------|---------|---------|
| Standards, Policy, and Guidelines | 4.028 | 4.800 | 5.030 |
| | | | |

FY07:

- Continued alignment of standards, policy, and guidelines across the Naval Enterprise and with OSD and Joint Service organizations. Continued data structure, process and collaborative engineering tools for specified initiatives.
- Continued the integrated quick reference roadmap for acquisition programs on how the policies and programs fit together and provided a comprehensive summary of standards, policy, and guidelines, known issues, processes and specific engineering products for Global Information Grid (GIG) Systems Engineering, Joint Theater Air and Missile Defense Office (JTAMDO), DOD Information Technology Standards Registry (DISR), Information Support Plan (ISP) and Net Enabled Command Compatibility (NECC).
- Continued technical alignment of Naval Power (NP) 21 and Open Architecture (OA) standards with DISR standards. Established technical warrant holder roles and responsibilities for information technology standards.
- Continued to represent ASN RD&A in the OSD Systems Engineering Forums to address the impact of SOS engineering policy in acquisition.
- Continued working on the Naval Power 21 Integration and Interoperability Management Plan development. Updated Secretary of the Navy (SECNAV) Instruction 5000.2. Completed Navy Standards Working Group Draft Standard Operating Procedure.
- Continued working on the ISP and Net Ready - Key Performance Parameter (NR-KPP) assessments.
- Continued to work with the Department of Defense (DOD) Anti-Tamper Executive Agent on DON policy and Implementation. Selected and evaluated anti-tamper technologies in designated areas of interest.

FY08:

- Continue alignment of standards, policy, and guidelines across the Naval Enterprise and with OSD and Joint Service organizations. Continue data structure, process and collaborative engineering tools for specified initiatives.
- Continue the integrated quick reference roadmap for acquisition programs on how the policies and programs fit together and provide a comprehensive summary of standards, policy, and guidelines, known issues, processes and specific engineering products for Global Information Grid (GIG) Systems Engineering, Joint Theater Air and Missile Defense Office (JTAMDO), DOD Information Technology Standards Registry (DISR), Information Support Plan (ISP) and Net Enabled Command Compatibility (NECC).
- Complete technical alignment of Naval Power 21 and OA standards with DISR standards and technical warrant holder roles and responsibilities for information technology standards.
- Continue to represent ASN RD&A in the OSD Systems Engineering Forums to address the impact of SOS engineering policy in acquisition.
- Complete Naval Power 21 Integration and Interoperability Management Plan development and Navy Standards Working Group Draft Standard Operating Procedure.
- Initiate ISP and NR-KPP implementation plans.
- Continue working with the DOD Anti-Tamper Executive Agent on DON policy and Implementation. Select and evaluate anti-tamper technologies in designated areas of interest.

FY09:

- Continue alignment of standards, policy, and guidelines across the Naval Enterprise and with OSD and Joint Service organizations. Continue data structure, process and collaborative engineering tools for specified initiatives.
- Continue the integrated quick reference roadmap for acquisition programs on how the policies and programs fit together and provide a comprehensive summary of standards, policy, and guidelines, known issues, processes and specific engineering products for GIG Systems Engineering, JTAMDO, DISR, ISP and NECC.
- Develop Naval Power 21 and OA standards policy updates for alignment of Navy with DISR standards and technical warrant holder roles and responsibilities.
- Continue to represent ASN RD&A in the OSD Systems Engineering Forums to address the impact of SOS engineering policy in acquisition.
- Develop Naval Power 21 Integration and Interoperability Management Plan policy updates.
- Continue ISP and NR-KPP implementation plans.
- Continue working with the DOD Anti-Tamper Executive Agent on DON policy and Implementation. Select and evaluate anti-tamper technologies in designated areas of interest.
- Continue work with DOD Institutional Reform & Governance Agent on DOD/DON policy and implementation.

CLASSIFICATION:

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| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 3039 CHENG |

B. Accomplishments/Planned Program

| | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Naval Collaborative Engineering Environment (NCEE) | 3.000 | 2.711 | 2.886 |
| | | | |

FY07:

- Continued to develop and implement external interfaces to the NCEE with authoritative DON data bases; continued Defense Architecture Repository System (DARS) testing phase on system data; initiated Program Office interface; completed ASDB and ASN RD&A Dashboard prototypes.
- Continued Interoperability Data Management and Analysis: completed the semi-automated capability and automated capability prototype; initiated deployment to programs of interest.
- Continued Integrated Engineering Environment support to SOS Systems Engineering Integrated Product Teams (SE IPTs), Program Offices and Systems Commands: completed Anti-Submarine Warfare (ASW) IPT; continued Naval Air Systems Command (NAVAIRSYSCOM) Systems Engineering Resource Center (SERC) and OA Experiment Team; completed OA Surface Domain technical support.
- Continued integrated engineering environment tool integration development: continued working the Core Architecture Data model eXtensible Markup Language (CADM XML) and System Architect; updated core and Dynamic Object Oriented Requirements System (DOORS); initiated Visio and Bonapart.
- Continued to evolve the Decision Support Environment: completed Naval Architecture Repository (NAR) prototype and began NAR capability deployment to Program Managers; continued to organize and transition enterprise-wide websites and workspaces; initiated the Chief Engineer Architect Tool for Engineering Review (CHEATER) prototypes.
- Began Naval Force Development System (NFDS) implementation support; extended capabilities to other services and agencies to support joint initiatives.
- Continued technical support for building the Open Architecture (OA) Assess Repository (OAAAR) and its use by associated OA government and industry stakeholders.

FY08:

- Continue to develop and implement external interfaces to the Naval Collaborative Engineering Environment (NCEE) with authoritative DON data bases: continue Defense Architecture Repository System (DARS) testing phase on technical data; continue Program Office interface; initiate Joint Forces Command database interface.
- Continue Interoperability Data Management and Analysis: update acquisition milestone document automation process and capabilities; complete deployment to programs of interest.
- Continue Integrated Engineering Environment support to Systems Engineering Integrated Product Teams (SE IPTs), Program Offices and Systems Commands: continue Naval Air Systems Command (NAVAIRSYSCOM) Systems Engineering Resource Center (SERC) and Open Architecture (OA) Experiment Team technical support; initiate Naval Sea Systems Command (NAVSEASYSKOM) programs technical support.
- Continue integrated engineering environment tool integration development: complete Visio and Bonapart plug ins; update CADM XML, System Architect, CORE and DOORS plug ins; initiate slate plug in.
- Continue to evolve the Decision Support Environment: deploy Naval Architecture Repository (NAR) prototype; complete Chief Engineer Architect Tool for Engineering Review (CHEATER) prototype; continue to organize and transition enterprise-wide websites and workspaces.

FY09:

- Continue to develop and implement external interfaces to the NCEE with authoritative DON data bases: continue Defense Architecture Repository System (DARS) interface; continue Program Office interface; continue Joint Forces Command database interface.
- Continue Interoperability Data Management and Analysis: monitor and update acquisition milestone document automation capabilities to programs of interest; initiate cross-domains and cross-functional areas interoperability data management.
- Continue Integrated Engineering Environment support to Systems Engineering Integrated Product Teams (SE IPTs), Program Offices and Systems Commands: continue Naval Air Systems Command (NAVAIRSYSCOM) Systems Engineering Resource Center (SERC), Open Architecture (OA) Experiment Team, and NAVSEA programs technical support.
- Continue integrated engineering environment tool integration development: complete SLATE plug in; update CADM XML, System Architect, CORE, DOORS, Visio, and Bonapart plug ins.
- Continue to evolve the Decision Support Environment: continue Naval Architecture Repository (NAR) deployment for enterprise architectures review; deploy Chief Engineer Architect Tool for Engineering Review (CHEATER); continue to organize and transition enterprise-wide websites and workspaces.

CLASSIFICATION:

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|---|---|---------------------------------------|
| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 3039 CHENG |

B. Accomplishments/Planned Program

| | FY 2007 | FY 2008 | FY 2009 |
|----------------------------|---------|---------|---------|
| Systems Engineering | 8.058 | 9.270 | 10.491 |
| | | | |

FY07:

- Authenticated Naval Power 21 capabilities-based, Integrated Architecture product assessments; developed the Naval Architecture Repository System (NARS) and technical views to support decision-making; formalized integrated architecture training at the Defense Acquisition University.
- Expanded the Naval Architecture Reference Guide to include 12 element lists. Provided an automated architecture alignment check and architecture development guidance for Program Managers. Issued SECNAV architecture policy.
- Continued software Acquisition Process Improvement (Section 804) initiative and began pilot project implementation.
- Revised the SOS Systems Engineering Guidebook Volumes I and II to address specialty engineering functions, e.g. Human Systems Integration, Safety.
- Initiated and established SOS SE IPTs for Battlespace Networks, Mine Warfare and Missile Defense Agency to support CNO priority capability needs.
- Continued acquisition milestone review documentation to assess Integration and Interoperability in Information Support Plans, Systems Engineering Plans and Risk Assessments and incorporated results in the ASN Research, Development and Acquisition Dashboard.
- Delivered the final NFDS assessment report. Assessed the Department of Navy mission and capability roadmaps for alignment with joint concepts and doctrines. Developed a roadmap reconciliation report.
- Developed and executed the systems engineering section of the NP 21 Integration and Interoperability Management Plan.
- Established technical warrant holder roles and responsibilities at the mission and capability level.

FY08:

- Continue to authenticate Naval Power 21 capabilities-based Integrated Architecture product assessments; develop the Naval Architecture Repository System (NARS) and technical views to support decision-making.
- Continue Software Acquisition Process Improvement (Section 804) pilot project implementation.
- Complete System-of-Systems (SOS) Systems Engineering (SE) Guidebook Volumes I and II to address specialty engineering functions to include Human Systems Integration, Safety, etc.
- Continue SOS SE Integrated Product Team (IPTs) for Battlespace, Mine Warfare and Missile Defense Agency to support CNO priority capability needs.
- Continue acquisition milestone review documentation to assess Integration and Interoperability in Information Support Plans, Systems Engineering Plans and Risk Assessments and incorporate results in the ASN Research, Development and Acquisition Dashboard.
- Develop and promulgate integrated architecture roadmap with Mission Capability Package System View 8 and Capability Evolution Document.
- Continue NP 21 Integration and Interoperability Management Plan implementation.
- Complete mission and capability technical warrant holder roles and responsibilities.

FY09:

- Continue to authenticate Naval Power 21 capabilities-based Integrated Architecture product assessments; complete the Naval Architecture Repository System (NARS) and technical views to support decision-making.
- Continue Software Acquisition Process Improvement (Section 804) implementation.
- Continue SOS SE Integrated Product Team (IPTs) for Battlespace, Mine Warfare and Maritime Defense Awareness or any other high priority mission, capability, and/or platform oriented integration to support CNO priority capability needs.
- Continue acquisition milestone review documentation to assess Integration and Interoperability in Information Support Plans, Systems Engineering Plans and Risk Assessments and incorporate results in the ASN Research, Development and Acquisition Dashboard.
- Implement Naval process for aligning and reusing ISP architecture information, approve Acquisition Category (ACAT) 1C and 2 ISP's, act as lead agency for review of ISPs received via Office of the Secretary of Defense/Joint Capabilities Integration and Development System (OSD/JCIDS).
- Continue development and promulgation of integrated architecture roadmap with Mission Capability Package System View 8 and Capability Evolution Document.
- Continue NP 21 Integration and Interoperability Management Plan (I&IMP) implementation.
- Conduct annual Capability Planned Assessment (CPA).
- Review all Engineering Change Proposals which may impact systems across functional areas.
- Develop and disseminate Modeling and Simulation (M&S) executable modeling process for System of Systems.

CLASSIFICATION:

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| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support | PROJECT NUMBER AND NAME 3039 CHENG |
| <p>C. OTHER PROGRAM FUNDING SUMMARY:</p> <p><u>Line Item No. & Name:</u> Not Applicable</p> | | |
| <p>D. ACQUISITION STRATEGY: Not Applicable</p> | | |
| <p>E. MAJOR PERFORMERS:</p> <p>Alion Science and Technology Corporation, McLean VA - Primary professional and technical support services contract. Naval Surface Warfare Center, Dahlgren, VA - Conduct Navy enterprise-wide open architecture experiment to identify metrics and enable component testing for interoperability.</p> | | |