

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-6</b>					R-1 ITEM NOMENCLATURE 0605853N Management, Technical and International Support			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	41.665	45.126	49.498	50.311	51.061	52.200	53.353	54.329
0149 International Cooperative RDT&E	1.652	3.715	4.861	4.944	5.005	5.062	5.156	5.251
1767 Naval War College/Center for Naval Warfare Studies	3.223	3.074	3.661	4.164	4.220	4.299	4.376	4.455
2221 Assessment Program	21.225	21.532	22.167	22.672	22.840	23.396	24.040	24.495
3025 Capital Asset Management System	1.951	1.520	1.609	1.581	1.644	1.675	1.691	1.707
3039 CHENG	13.614	15.285	17.200	16.950	17.352	17.768	18.090	18.421
Quantity of RDT&E Articles	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>International Cooperative RDT&amp;E: This project provides program management, execution, and support to implement a broad range of cooperative Naval Research and Development, Test and Evaluation (RDT&amp;E) initiatives to harmonize U.S. Navy requirements with allied and friendly nations, identify cooperative international opportunities, and improve coalition interoperability. In addition, it develops coherent approaches, in coordination with Combatant Commanders (COCOMs), Chief of Naval Operations (OPNAV(N3/N5)), Office of Naval Research (ONR) and appropriate Partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), cooperative acquisition programs, and identifying technology to complement Sea Power 21. The project scope in FY06 has been recently expanded from primarily North Atlantic Treaty Organization (NATO)-centric to include a Global War on Terrorism (GWOT) and Maritime Domain Awareness (MDA) emphasis. Relationships are being initiated with a greatly expanded group of 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 projects while preparing to facilitate support for a global network of maritime nations under MDA and increase GWOT-related support requirements. Beginning in FY 2007, additional funding will support evolving cooperative RDT&amp;E exchanges and projects contributing to GWOT and MDA. In cooperation with allied and friendly maritime nations, various low risk projects will be funded in areas such as coastal and harbor surveillance and patrol, maritime tracking, C4I, surveillance and reconnaissance (C4ISR), and other technologies that meet emergent security requirements. The funds will be used to fill capability gaps in the near-term and develop promising MDA, GWOT and related RDT&amp;E technologies while longer-term funding is pursued in coordination with resource sponsors through normal budget processes.</p> <p>Naval War College/Center for Naval Warfare Studies: 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, and political military assessments, and provide recommendations to the Chief of Naval Operations (CNO) and Fleet Commanders regarding the formulation and execution of options for the President of the United States.</p>								

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<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION (Cont.):</b></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 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 RDT&amp;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&amp;E,N/ONR.</p> <p>CHENG: funds the Assistant Secretary of the Navy for Research, Development and Acquisition (ASN RD&amp;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 <b>RDT&amp;E, N / BA-6</b>	R-1 ITEM NOMENCLATURE 0605853N Management, Technical and International Support
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**C. PROGRAM CHANGE SUMMARY:**

Funding:	FY 2006	FY 2007	FY 2008	FY 2009
FY07 President's Budget	42.611	47.213	48.998	49.206
FY08/09 President's Budget Submit	41.665	45.126	49.498	50.311
Total Adjustments	-0.946	-2.087	0.500	1.105
 Summary of Adjustments				
Navy Miscellaneous Adjustments	-0.905			
Functional Realignment for OPNAV Prog. Support Costs	-0.041			
BRAC Adjustment				0.002
CIVPERS/CS Adjustment			-0.244	-0.241
Rate Adjustment			0.034	0.041
Federally Funded R&D Center		-0.115		
Congressional Adjustment		-1.972		
Non-Purchase Inflation Adjustment			-0.082	0.056
Program Adjustments	-0.946	-2.087	0.792	1.247
Subtotal	-0.946	-2.087	0.500	1.105

Schedule:

Not Applicable

Technical:

Not Applicable

EXHIBIT R-2a, RDT&E Project Justification					DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support			PROJECT NUMBER AND NAME 0149 INTERNATIONAL COOP RDT&E				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
*Project Cost		1.652	3.715	4.861	4.944	5.005	5.062	5.156	5.251
RDT&E Articles Qty									

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

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 harmonize U.S. Navy requirements with allied and friendly nations, identify cooperative international opportunities, and improve coalition interoperability. In addition, it develops coherent approaches, in coordination with Combatant Commanders (COCOMs), Chief of Naval Operations (OPNAV (N3/N5)), Office of Naval Research (ONR) and appropriate Partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), cooperative acquisition programs, and identifying technology to complement Sea Power 21.

The project scope in FY06 has been recently expanded from primarily North Atlantic Treaty Organization (NATO)-centric to include a Global War on Terrorism (GWOT) and Maritime Domain Awareness (MDA) emphasis. Relationships are being initiated with a greatly expanded group of 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 projects while preparing to facilitate support for a global network of maritime nations under MDA and increase GWOT-related support requirements.

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

1. Negotiating and developing approximately 50 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. Participating 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));

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**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION (continued):**

- 6. Funding of various international RDT&E support databases including Technical Project Officer (TPO), International Agreement Generators, Information/Data Exchange Agreements, and Project Agreements/Memorandums of Understanding;
- 7. Leading the Engineering and Scientist Exchange Program (ESEP);
- 8. Overseeing OPNAV input to Foreign Comparative Testing (FCT) Program and OSD Coalition Warfare Program (CWP).

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 and 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 fulfill capabilities gaps, gain access to foreign research and testing data at no cost, and avoid duplicate research and development activities. The performance goal is to obtain foreign technologies and financial contribution that reduce the requirement for DoN funding.

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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>International Coop</b>	1.652	3.715	4.861	4.944

**FY 2006 ACCOMPLISHMENTS:**

As directed by the CNO's FY2005-2006 Maritime Security Guidance and in coordination with combatant commands (COCOMs) and N6/7:

- Defined Combined Enterprise Regional Information Exchange System (CENTRIX) - like net architectures and open standards to enhance joint and coalition interoperability;
- Developed a sea-based missile defense mission roadmap;
- Identified partner nation technologies that support Sea Power 21 required capabilities; and
- Developed a security cooperation roadmap addressing command, control, communications, computers and intelligence (C4I) with maritime partner nations.

Continued cooperative programs and added new emphasis on acquisition of Global War on Terrorism (GWOT) and Maritime Domain Awareness (MDA) technologies with friendly nations and new allies. Worked with DoD, U.S. State Department and other agencies to assess and prioritize potential new partners for RDT&E cooperative programs while supporting existing programs with long-established allies.

- Conducted an in-depth review of International Agreements and cooperative programs with the United Kingdom (U.K.)
- Provided support to Acquisition Integrated Product Teams (IPTs) in evaluation of international cooperative alternatives for development of DoN programs as well as support to the OSD International Cooperation Office.
- Incorporated RDT&E project awareness into OPNAV Resource Sponsors to enhance Navy Capabilities Development Process (NCDP).
- Initiated new DoN database planning for the drafting, negotiating, managing and tracking of proposed International Agreements (IAs) for R & D technology projects with key allies and friendly nations. Set up a new database on IAs between friendly countries and other US military/ government agencies to reduce duplication of effort and development costs.
- Refocused international activities within OPNAV departments to obtain foreign technologies and capabilities that improve U.S. Navy war fighting capabilities through collaboration and cooperative development. Conducted harmonization of requirements with critical allies to identify common areas of interest, particularly in GWOT, MDA, littoral operations, anti-submarine warfare and non-conventional threats.
- Increased level of Navy participation in the Engineer and Scientist Exchange Program (ESEP) to four. Initiated assignment analysis of scientist/engineers to better target future opportunities for emerging technologies and programs at foreign research establishments.
- Reprioritized cooperative programs with foreign navies to focus on technology, techniques and equipment that improve coalition capability. Led OPNAV participation in OSD(AT&L) FCT Program and the CWP to speed fielding of war fighting capabilities.

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**CONTINUATION:**

**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

**FY 2007 PLANS:**

FY07 plans will see a continuation of FY06's new mission efforts. In coordination with Combatant Commanders (COCOMS), US State Department, Office of Defense Coordination, Office of Naval Research and Navy International Programs Office, Senior National Representative (SNR) will assess, identify, prioritize and engage in cooperative projects and exchanges with friendly and allied countries particularly in Global War on Terrorism (GWOT) and Maritime Domain Awareness (MDA) areas. Actively support approved Quadrennial Defense Review (QDR) recommendations in international arenas including technology development, acquisition and programs to meet US Navy requirements. In conjunction with international partners, continue to focus on coalition interoperability across the operational spectrum from stability operations, homeland security/defense, and anti-terrorism to major combat operations. Continue to support NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs while adapting to new security requirements.

- Increase participation in OUSD AT&L's Foreign Comparative Test (FCT) Program and the Coalition Warfare Program (CWP) to improve program selection and meet emerging military capability requirements.
- Improve and maintain DoN international databases for drafting, negotiating, managing and tracking of proposed International Agreements (IAs) for R&D technology projects with key allies and friendly nations. Functionally integrate DoN international databases across OPNAV departments to improve leveraging of program dollars, fielding of better products, and speeding delivery.
- Provide support to Acquisition Integrated Product Teams (IPTs) in evaluating international cooperative alternatives for development of DoN programs as well as support to the OSD International Cooperation Office.
- Continue execution of over 300 Information Exchange Agreements.
- Evaluate foreign research establishments and emerging technologies to determine best placement of US Navy Engineers and Scientists overseas under the Engineer and Scientist Exchange Program (ESEP) program. Conduct competitive screening for scientist and engineer selection to improve Navy ESEP participation. Conduct post-assignment analysis of scientists/engineers to better integrate the technologies assimilated while on assignment at a foreign research establishment.
- Conduct harmonization of requirements with critical allies to improve coalition operations while developing interoperability with new allies and friendly nations. Focus on CNO-directed key countries in regional areas to obtain and support foreign technologies and capabilities through collaboration and/or cooperative development that improve USN joint and coalition war fighting capabilities .
- Beginning in FY 2007, additional funding will support evolving cooperative exchanges and projects contributing to GWOT and MDA. International relationships have been initiated with a greatly expanded group of countries, particularly those with nascent and littoral navies located in new regions critical to US security. In cooperation with allied and friendly maritime nations, various low risk projects will be funded in areas such as coastal and harbor surveillance and patrol, maritime tracking, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), and other technologies that meet emergent security requirements. The funds will be used to fill capability gaps in the near-term and develop promising MDA, GWOT and related RDT&E technologies while longer-term funding is pursued in coordination with resource sponsors through normal budget processes.

**FY 2008 PLANS:**

- Continue all efforts of FY 2007 less those noted as completed above.

**FY 2009 PLANS:**

- Continue all efforts of FY 2008 less those noted as completed above.

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**C. OTHER PROGRAM FUNDING SUMMARY:**

Not Applicable

**D. ACQUISITION STRATEGY:**

Not Applicable

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COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	3.223	3.074	3.661	4.164	4.220	4.299	4.376	4.455
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, 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 is a level of effort project to provide 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, and the extent to which demand for war games and research products can be accommodated within level of effort funding. 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 06	FY 07	FY 08	FY 09
<b>Strategic Studies</b>	1.275	1.426	1.721	1.871

Naval War College (NWC) conducts research in strategic studies in response to tasking from the Secretary of the Navy (SECNAV), Chief of Naval Operations (CNO), Fleet Commanders, numbered Fleet Commanders, and Combatant Commanders (COCOMS). NWC also hosts the activities of the 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.

**FY 2006 ACCOMPLISHMENTS:**

- Completed SSG XXV tasking from CNO to "operationalize the Free Form Force."
- Conducted research and analysis projects and provided supporting events for OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects are focused on direct research and analysis support for Commander Fifth Fleet (C5F), Commander Sixth Fleet (C6F) and Commander Seventh Fleet (C7F), as well as on the Proliferation Security Initiative (PSI) in support of the OPNAV Staff and Chinese maritime developments in support of C7F, Office of Naval Intelligence (ONI) and Commander, Mine Warfare Command (COMMINEWARCOM). The College has also directly supported Commander Second Fleet (C2F) and Commander Third Fleet (C3F) on the subject of Maritime Missile Defense and Maritime Domain Awareness. Other projects deal with Iraqi counter-insurgency, naval transformation, and mine and submarine warfare.
- Initiated SSG XXVI tasking from the CNO to generate revolutionary warfighting concepts for "fighting in cyberspace in 2030."

**FY 2007 PLANS:**

- Continue to conduct research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects in direct support of numbered fleet commanders will be expanded to include C7F with particular focus on India and the Indian Ocean.
- Continue to support the OPNAV Staff on the PSI and support ONI on Chinese maritime developments.
- Complete tasking from the CNO to SSG XXVI to address "fighting in cyberspace in 2030."

**FY 2008 PLANS:**

- Continue to conduct research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects in direct support of numbered fleet commanders will reach steady state.
- Continue to support the OPNAV Staff on the PSI and support ONI on Chinese maritime developments.
- Continue to generate revolutionary operating and warfighting concepts for 2035 and beyond under CNO tasking.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.

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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>Naval War Gaming Support</b>	1.114	0.907	1.085	1.118

Naval War College (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.

**FY 2006 ACCOMPLISHMENTS:**

- Conducted 50-55 major war games and related events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders.
- Developed networked warfare war gaming system in order to support research on networked Command and Control (C2).
- Conducted operational research and experimentation for Joint Forces Maritime Component Commander (JFMCC) concept development.
- Continued 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.
- Conducted research supporting war games co-sponsored with Naval Warfare Development Command (NWDC) and US Joint Forces Command.
- Developed advanced war gaming analytical methods and tools.
- Continued analytic research on effects based operations and systems thinking for Naval Forces Europe (NAVEUR) and Navy Component for Central Command (NAVCENT).
- Continued research in advanced adaptive C2 for Office of Naval Research (ONR).
- Developed educational materials for Naval Operations Planners Course (NOPC).
- Conducted high level policy analytic research and gaming addressing Proliferation Security Initiatives for OSD.

**FY 2007 PLANS:**

- Continue to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders.
- Continue to conduct operational research and experimentation for JFMCC concept development via JFMCC Center of Excellence.
- Continue analytical research on key operational challenges such as theater ASW, submarine payloads, seaborne maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and Sea Basing.
- Continue to conduct research supporting war games co-sponsored with NWDC and US Joint Forces Command.
- Continue to develop advanced war gaming analytical methods and tools.

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**B. ACCOMPLISHMENTS/PLANNED PROGRAM: Continued**

	FY 06	FY 07	FY 08	FY 09
<b>Naval War Gaming Support</b>				

**FY 2007 PLANS (CONTINUED):**

- Continue to conduct analytic research on effects based operations and systems thinking for NAVEUR and NAVCENT.
- Continue to conduct research in advanced adaptive C2 for ONR.
- Continue to develop educational materials for Naval Operations Planners Course (NOPC).
- Continue to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for OSD.

**FY 2008 PLANS:**

- Continue all efforts of FY07 less those noted as completed above.
- Conduct Maritime Operations Training for officer and enlisted personnel.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.
- Continue Maritime Operations Training for officer and enlisted personnel to raise throughput.

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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>Warfare Analysis and Research</b>	0.407	0.266	0.414	0.424

Naval War College (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.

**FY 2006 ACCOMPLISHMENTS:**

- Conducted 25-30 major decision events in support of OPNAV staff, Naval Undersea Warfare Center, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Major efforts included studies in support of research for Minewarfare Capabilities Study, Unmanned Surface Vehicle (USV) Master Plan, Unmanned Vehicle Command and Control, Maritime Ballistic Missile Defense Concept Study, Nuclear Guided Missile Submarines; Converted Ballistic Missile Submarines Joint Command Alternatives, Maritime Domain Awareness and a globally-networked Maritime Operations Headquarters.
- Provided direct support to NWC student research groups and wargaming.

**FY 2007 PLANS:**

- Continue to conduct 30-40 major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders.
- Continue analytical research on key strategic and operational challenges such as maritime ballistic missile defense, unmanned vehicles, global maritime security, maritime domain awareness, and multi-service force deployment.
- Continue to conduct additional evaluation of concepts and decision events in conjunction with wargaming center.
- Continue to provide direct support to NWC student research groups and wargaming.

**FY 2008 PLANS:**

- Continue all efforts of FY07 less those noted as completed above.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 1767 NAVAL WAR COLLEGE STRATEGIC STUDIES SUPT
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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>NWC Student Research Projects</b>	0.077	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.

**FY 2006 ACCOMPLISHMENTS:**

- Conducted focused research, analysis, and free-play war gaming of current and future operational challenges under the Halsey Group program.
- Completed projects presented to the CNO and theater operational commanders which included concepts of operations for Theater Anti-Submarine Warfare (ASW), Theater Anti-Air Warfare (AAW), Theater Strike Warfare, Maritime Interdiction, Mine Warfare, Theater Ballistic and Cruise Missile Defense, and Sea Basing. All represented real world operational challenges of concern to the CNO and senior theater commanders. The Halsey Groups have provided direct warfighting support to the Commander Pacific Fleet and C7F.
- Initiated focused research and analysis of current and future operational challenges centered on joint operational concepts for countering a range of emerging challenges to assured theater access, to include: Theater Anti-Submarine Warfare (ASW), Theater Anti-Air Warfare (AAW), Theater Strike Warfare, Maritime Interdiction and Theater Missile Defense. All represented real world operational challenges of concern to the CNO and senior theater commanders in the Central Command area of responsibility (AOR).

**FY 2007 PLANS:**

- Continue to conduct focused research, analysis and war gaming of current and future strategic operational challenges and tactical imperatives by the Halsey Group and Mahan Scholars programs.
- Research groups will continue to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from access denial efforts at the high end of the conflict spectrum in the Pacific and Central Command (CENTCOM) AOR. Research and analysis efforts will continue in those areas above, and will be expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial at the theater joint operational level.

**FY 2008 PLANS:**

- Continue all efforts of FY07 less those noted as completed above.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.

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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>JFMCC/Worldwide Naval Component</b>	0.000	0.000	0.292	0.599
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.

**FY 2006 ACCOMPLISHMENTS:** Not Applicable

**FY 2007 PLANS:** Not Applicable

**FY 2008 PLANS:**

- 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 and further development of Maritime Task Planning tool.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 1767 NAVAL WAR COLLEGE STRATEGIC STUDIES SUPT
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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>Maritime Strategy</b>	0.350	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.

**FY 2006 ACCOMPLISHMENTS:**

- Conducted process building and held two workshops, one to develop geostrategic planning factors for subsequent use in following workshops and games, and a strategy development lessons learned conference that featured discussions by key players in the development of the 1980s maritime strategy. In addition, NWC commissioned several papers in conjunction with these events, that are meant to be published in the Naval Wall College *Review* or in an edited volume on maritime strategy. NWC also contracted for project support and key subject matter experts to support Red Team (potential adversaries and other players of strategic significance) strategy development.

**FY 2007 PLANS:**

-Conduct at least two major wargames and two conferences to support the research and analysis effort. In addition, NWC will carry out a program of national and international outreach as an integral part of the strategy development process. Included in this process is 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.

**FY08 PLANS:**

- Upon adoption of a new maritime strategy, NWC will undertake a continuing program of research, analysis and gaming to gain greater insight into its strategic, operational and programmatic implications. This work is unfunded. NWC will submit an issue paper to address this shortfall. NWC will support similar efforts by other Navy commands through focused wargaming.

**FY09 PLANS:**

- Upon adoption of a new maritime strategy, NWC will undertake a continuing program of research, analysis and gaming to gain greater insight into its strategic, operational and programmatic implications. This work is unfunded. NWC will submit an issue paper to address this shortfall. NWC will support similar efforts by other Navy commands through focused wargaming.

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<p><b>C. OTHER PROGRAM FUNDING SUMMARY:</b></p> <p>Not Applicable</p> <p><b>D. ACQUISITION STRATEGY:</b></p> <p>Not Applicable</p>		

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support			PROJECT NUMBER AND NAME 2221 Assessment Program				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011	FY2012	FY2013
Project Cost		21.225	21.532	22.167	22.672	22.840	23.396	24.040	24.495
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 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 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

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**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
<b>Navy Standard Scenarios</b>	1.330	1.451	1.485	1.520

**FY 2006 ACCOMPLISHMENTS:**  
 Developed, updated and maintained detailed level Navy Standard scenarios based on Defense Planning Guidance. Developed alternative scenarios in support of Quadrennial Defense Review (QDR), Joint studies, and Navy resource analyses. Developed analytic baseline for Major Combat Operations-2 scenario in the 2020 timeframe consistent with the concept of operations and assumptions for the Operations Availability - 06.

**FY 2007 PLAN:**  
 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.

**FY 2008 PLAN:**  
 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.

**FY 2009 PLAN:**  
 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 06	FY 07	FY 08	FY 09
<b>Capability Based Assessments</b>	2.506	2.732	2.797	2.864

**FY 2006 ACCOMPLISHMENTS:**  
 Performed collaborative assessments with capability sponsors of their products. Proactively participated in Capability Sponsors' Integrated Processing Teams (IPTs). Presented opposing analytically-based points of view. Provided analytically-based decision recommendations to the Chief of Naval Operations (CNO) for both warfighting and support areas. Developed CNO Investment Strategy recommendations and conducted assessments for Program Review (PR )-07 and Program Objective Memorandum (POM)-08. Assessed capability sponsors' 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 Operations (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.

**FY 2007 PLAN:**  
 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. 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. 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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**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
<b>Capability Based Assessments (continued)</b>				

**FY 2008 PLAN:**  
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.

**FY 2009 PLAN:**  
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 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. 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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**B. Accomplishments/Planned Program**

	FY 06	FY07	FY08	FY09
<b>Campaign Analysis - Modeling and Simulation</b>	6.700	6.415	6.690	6.825

**FY 2006 ACCOMPLISHMENTS:**

Developed and maintained common baselines from which campaign excursions and mission-level analyses were executed. Identified, developed, and improved data and modeling. Led Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Provided path and structure for coordination across the Navy. Broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data. Lead campaign analysis for Office of the Chief of Naval Operations (OPNAV). Conducted modeling and simulation support for ongoing OPNAV missile defense analysis requirements. Established and managed authoritative data repository by locating best quality data for Modeling and Simulation (M&S) for use by Office of the Chief of Naval Operations (OPNAV) and Navy-Wide organizations.

**FY 2007 PLAN:**

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.

**FY 2008 PLAN:**

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.

**FY 2009 PLAN:**

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 06	FY 07	FY 08	FY 09
<b>OSD/Joint Staff Study Analysis &amp; Assessment</b>	1.629	1.772	1.814	1.857

**FY 2006 ACCOMPLISHMENTS:**

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's 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).

**FY 2007 PLAN:**

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).

**FY 2008 PLAN:**

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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**B. Accomplishments/Planned Program (Cont.)**

	FY 06	FY 07	FY 08	FY 09
<b>OSD/Joint Staff Study Analysis &amp; Assessment (continued)</b>				

**FY 2009 PLAN:**

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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**B. Accomplishments/Planned Program (Cont.)**

	FY 06	FY 07	FY 08	FY 09
<b>World Class Modeling, Simulation, and Capability Analysis</b>	9.060	9.162	9.381	9.606

**FY 2006 ACCOMPLISHMENTS:**  
Supported the effort to take the Navy to the next level of achieving a "World Class" modeling, simulation, and analysis capability and represents a major move in the direction of integrating all department of the Navy Modeling and Simulation (M&S) activities to support the Office of the Chief of Naval Operations (OPNAV) staff and the Joint Analytic Agenda. Initiated development of new models in new mission areas which included Expeditionary Warfare (EXWAR), Command, Control, Communications, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR), Force Protection/Anti-Terrorism (FP/AT), Information Operations (IO), and Global War on Terrorism (GWOT). Conducted assessments of current model and made recommendation for improvements that better reflect Navy's developing capabilities. Conducted Verification, Validation, and Accreditation (VV&A) for selected Navy models. Provided the Navy with concise and innovative analyses and assessments of Navy models that help optimize Navy programs and investment decisions. Conducted research that emphasized combat modeling, simulation, war gaming, and analysis in support of strategic, operational, and resource decision making and emphasized the development of pricing performance models that related investments and manpower to output performance and readiness. Evaluated new models that were 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 modeling and simulation. 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 2007 PLAN:**  
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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**B. Accomplishments/Planned Program (Cont.)**

	FY 06	FY 07	FY 08	FY 09
<b>World Class Modeling, Simulation, and Capability Analysis (continued)</b>				

**FY 2008 PLAN:**

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 PLAN:**

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.

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 2221 Assessment Program

**C. OTHER PROGRAM FUNDING SUMMARY:**

Not Applicable.

**D. ACQUISITION STRATEGY:**

Not Applicable.

**E. MAJOR PERFORMERS:**

Science Applications International Corporation (SAIC), McLean, VA, supports the Chief of Naval Operations (CNO) assessment program, mission capability packages processes, and modeling and simulation and analytically based warfare analyses that provides the basis for decision making with respect to alternative weapons systems; Concept of Operations (CONOPS) and force packages; Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) systems, FORCEnet; warfare systems (Sea Strike, Sea Shield, and Sea Basing); integration and force structure; and warfighting support.

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		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 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	1.951	1.520	1.609	1.581	1.644	1.675	1.691	1.707
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 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.

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3025 MID-RANGE FINANCIAL IMPROVEMENT PLANS
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**B. ACCOMPLISHMENTS/PLANNED PROGRAM:**

	FY 06	FY 07	FY 08	FY 09
<b>Financial Improvements</b>	1.951	1.520	1.609	1.581

**FY 2006 ACCOMPLISHMENTS:**

- Posted obligations within the reporting period in which they were incurred.
- Expanded the practice of having major contracting activities post awards electronically to Standard Accounting and Reporting System (STARS).
- Performed obligation validations to ensure that posted obligations were accurate. With the sheer volume of obligation documents to validate, this was a labor intensive effort requiring follow-up work to electronically requested validations.
- Revised accounts receivable process to more accurately record collections. Utilized the Overnight Collections History special reports available via the East Coast Computer Associates (CA) -View region.
- Manually recorded accounts payable (AP) when materials or services were received and accepted. When a functional AP input screen in the accounting system (STARS-HCM) was available, developed a process to gather receipt/acceptance data from logistical operations side of the house and/or contractors.
- Monitored duplication in vendor pay accounting system, STARS One Pay, as invoices were settled.
- Eliminated problem disbursements older than 120 days, narrowing to 60 days and potentially narrowing even further.

**FY 2007 PLANS:**

- Continue all efforts of FY06 less those noted as completed above.

**FY 2008 PLANS:**

- Continue all efforts of FY07 less those noted as completed above.

**FY 2009 PLANS:**

- Continue all efforts of FY08 less those noted as completed above.

EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2007</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3025 MID-RANGE FINANCIAL IMPROVEMENT PLANS
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**C. OTHER PROGRAM FUNDING SUMMARY:**

Navy Related RDT&E:

PE 0605013N (Information Technology Development)

PE 0605861N (RDT&E Science and Technology Management)

Non-Navy Related RDT&E:

Not Applicable

**D. ACQUISITION STRATEGY:**

Not Applicable

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support			PROJECT NUMBER AND NAME 3039 CHENG			
COST (\$ in Millions)	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Project Cost	13.614	15.285	17.200	16.950	17.352	17.768	18.090	18.421
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, OSD and Joint integration and interoperability and Anti-Tamper initiatives. Program increase in fiscal year 2007 implements DoN Anti-Tamper program to protect critical technology investments.

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHENG

**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Standards, Policy, and Guidelines</b>	3.433	4.227	5.008	5.030

**FY 2006 ACCOMPLISHMENTS:**

- Continued alignment of standards, policy, and guidelines across the Naval Enterprise and with OSD and Joint Service organizations. Develop the data structure, process and collaborative engineering tools.
- Provided an 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).
- Initiated technical alignment of Navy FORCENet (now Naval Power 21) and Open Architecture (OA) standards with DISR standards.
- Continued to represent ASN RD&A in the OSD Systems Engineering Forums to address the impact of System-of-Systems (SOS) engineering policy in acquisition.
- Developed Naval Power 21 Integration and Interoperability Management Plan and update SECNAV Instruction 5000.2 and DISR standards.
- Conducted ISP and Net-Ready Key Performance Parameter (NR-KPP) assessments.

**FY 2007 PLAN:**

- 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.
- Continue technical alignment of Navy Naval Power 21 and OA standards with DISR standards. Establish 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. Update SECNAV Instruction 5000.2. Complete Navy Standards Working Group Draft Standard Operating Procedure.
- Complete ISP and NR-KPP assessments.
- Work with the DOD Anti-Tamper Executive Agent on DON policy and Implementation. Select and evaluate anti-tamper technologies in designated areas of interest.

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHENG

**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Standards, Policy, and Guidelines - Continued</b>				

**FY 2008 PLAN:**

- 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 Navy 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.

**FY 2009 PLAN:**

- 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.

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**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Naval Collaborative Engineering Environment (NCEE)</b>	3.000	3.000	2.922	2.929

**FY 2006 ACCOMPLISHMENTS:**

- Continued to develop and implement external interfaces to the Naval Collaborative Engineering Environment (NCEE) with authoritative DON data bases: complete pilot to implement Naval Air Systems Command (NAVAIRSYSCOM) - U.S. Marine Corp Command Development Center (MCCDC) - Marine Corps - Naval Collaborative Engineering Environment (MARCOR-NCEE) data integration; participate in the Defense Architecture Repository System (DARS) testing phase on operational data; complete the Acquisition Security Database (ASDB) and ASN RD&A Dashboard proof of concepts.
- Continued Interoperability Data Management and Analysis: update the acquisition milestone document automation process; complete concept definition; initiate a semi-automated capability prototype.
- Continued Integrated Engineering Environment support to System-of-Systems (SOS) System Engineering Integrated Product Team (SE IPTs), Program Offices and Systems Commands: complete Supervisor of Shipbuilding requirement database; continue Anti-Submarine Warfare (ASW) Integrated Product Team (IPT) and NAVAIRSYSCOM Systems Engineering Resource Center (SERC); initiate the Open Architecture (OA) Experiment Team and OA Surface Domain technical support.
- Continued integrated engineering environment tool integration development and updates for Core Architecture Data Model (CADM) eXtensible Markup Language (XML), System Architect, CORE and DOORS plug ins.
- Completed coordination with OA programs on the development of an Open Architecture (OA) Assess Repository (OAAR) with web interface (including industry access) for asset control and OA software reuse test cases. Complete test cases for aircraft carrier Tactical Support Center, Ship Grid System/Auto Correlation, DDX Destroyer, Ship Self Defense System (SSDS) and AEGIS programs.
- Continued to evolve the Decision Support Environment: initiate a Naval Architecture Repository (NAR) prototype to automate the architecture data management process; continue to organize and transition Navy enterprise-wide websites and workspaces.

**FY 2007 PLAN:**

- Continue to develop and implement external interfaces to the NCEE with authoritative DON data bases: continue DARS testing phase on system data; initiate Program Office interface; complete ASDB and ASN RD&A Dashboard prototypes.
- Continue Interoperability Data Management and Analysis: complete the semi-automated capability and automated capability prototype; initiate deployment to programs of interest.
- Continue Integrated Engineering Environment support to SOS SE IPTs, Program Offices and Systems Commands: complete ASW IPT; continue NAVAIRSYSCOM SERC and OA Experiment Team; complete OA Surface Domain technical support.
- Continue integrated engineering environment tool integration development: complete CADM XML and System Architect; update CORE and DOORS; initiate Visio and Bonapart.
- Continue to evolve the Decision Support Environment: complete NAR prototype and begin NAR capability deployment to Program Managers; continue to organize and transition enterprise-wide websites and workspaces; initiate the Chief Engineer Architect Tool for Engineering Review (CHEATER) prototypes.
- Begin Naval Force Development System (NFDS) implementation support; extend capabilities to other services and agencies to support joint initiatives.
- Continue technical support for building the OAAR and its use by associated OA government and industry stakeholders.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHENG

**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Naval Collaborative Engineering Environment (NCEE)</b>				
<b>(continued)</b>				

**FY 2008 PLAN:**

- 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 (NAVSEASYSYSCOM) 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.

**FY 2009 PLAN:**

- 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.

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**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Systems Engineering</b>	7.181	8.058	9.270	8.991

**FY 2006 ACCOMPLISHMENTS:**

- Managed and evolve DON architecture governance process, guidance and relationship with Joint and OSD architecture processes.
- Performed integrated architecture assessments as the basis for representing a Naval architecture for use in Joint and OSD communities.
- Completed Naval Architecture Taxonomy standardization and the integration and validation of Sea Power 21 and Marine Corps Strategy 21 pillar architectures against Joint and Global Information Grid (GIG) integrated architectures.
- Continued Navy technical support to OSD and Joint engineering initiatives: Software Acquisition Process Improvement (Section 804), Software Assurance Tiger Team, and DOD Architecture Framework (DODAF) v2, DOD Acquisition Repository System (DARS) and Executable Architectures development board.
- Developed and promulgate Volume II of the Naval Capabilities Evolution Process Guidebook (now System of Systems (SOS) Systems Engineering Guidebook) to include architecture best practices.
- Continued technical support to on going Wideband Navy Waveform and Anti-Submarine Warfare (ASW) System System-of-Systems (SOS) System Engineering Integrated Product Teams (SE IPTs) and initiate new SE IPTs to support CNO priority capability needs.
- Provided technical support for development of acquisition milestone documentation and Integration and Interoperability Risk Identification assessments in support of DD (X) Destroyer, Advanced Deployable System (ADS), Landing, Helo and Assault (LHA (R)), Deployable Joint Command and Control System (DJC2) and Littoral Combat Ship (LCS) Program Executive Offices.
- Developed and promulgate guidance implementing OSD and DON systems engineering revitalization recommendations.
- Initiated Naval Force Development System (NFDS) assessment finding implementation and associated changes to SECNAVINST 5000.2C acquisition, capabilities, policies and procedures.

**FY 2007 PLAN:**

- Authenticate Naval Power 21 capabilities-based, Integrated Architecture product assessments; develop the Naval Architecture Repository System (NARS) and technical views to support decision-making; formalize integrated architecture training at the Defense Acquisition University.
- Expand the Naval Architecture Reference Guide to include 12 element lists. Provide an automated architecture alignment check and architecture development guidance for Program Managers. Issue SECNAV architecture policy.
- Continue Software Acquisition Process Improvement (Section 804) initiative and begin pilot project implementation.
- Revise the SOS Systems Engineering Guidebook Volumes I and II to address specialty engineering functions, e.g. Human Systems Integration, Safety.
- Initiate and establish SOS SE IPTs for Battlespace Networks, 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.
- Deliver the final NFDS assessment report. Assess Department of Navy mission and capability roadmaps for alignment with joint concepts and doctrines. Develop a roadmap reconciliation report.
- Develop and execute the systems engineering section of the NP 21 Integration and Interoperability Management Plan.
- Establish technical warrant holder roles and responsibilities at the mission and capability level.

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**B. Accomplishments/Planned Program**

	FY 2006	FY 2007	FY 2008	FY 2009
<b>Systems Engineering - (continued)</b>				

**FY 2008 PLAN:**

- 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.

**FY 2009 PLAN:**

- 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 ACAT 1C and 2 ISP's, act as lead agency for review of ISPs received via 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 M&S executable modeling process for System of Systems.

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605853N Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHENG

**C. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. & Name: Not Applicable

**D. ACQUISITION STRATEGY:** Not Applicable

**E. MAJOR PERFORMERS:**

Anteon Corporation, Fairfax, 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.