CLASSIFICATION:

| EXHIBIT R-2, RDT&E Budget Item Justification | | | | | DATE:
February 2006 | | |

| APPROPRIATION/BUDGET ACTIVITY
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /   BA-6 | | | | R-1 ITEM NOMENCLATURE
0605853N/Management, Technical and International Support | | | |

COST ($ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	30.080	42.611	47.213	48.998	49.206	49.890	51.071
3039 CHENG	12.476	13.842	16.146	17.133	16.748	17.135	17.567
0149 International Cooperative RDT&E	1.624	1.696	4.756	4.837	4.897	4.957	5.019
1767 Naval War College/Center for Naval Warfare Studies	2.352	3.262	3.087	3.235	3.316	3.356	3.426
3025 Capital Asset Management System	2.349	2.008	1.526	1.556	1.558	1.594	1.634
2221 Assessment Program	11.279	21.803	21.698	22.237	22.687	22.848	23.425
Quantity of RDT&E Articles	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Defense Emergency Response Funds (DERF) Funds: N/A

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

Project 3039 funds the Assistant Secretary of the Navy for Research, Development and Acquisition, ASN RD&A Chief Engineer (RDA CHENG) to develop and implement architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Department of Navy 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 (NCEE) 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. RDA CHENG consolidated System and Technical Architectures and Large Scale Systems Engineering, in fiscal year 2006, into one Systems Engineering line item to achieve greater synergy. Program increase in fiscal year 2007 includes funding for previously authorized but unfunded DON Anti-Tamper requirement.

Project 0149 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 command (COCOMs), N3/5, 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 FY05 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 FY07, additional funding will support evolving cooperative RDT&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&E technologies while longer-term funding is pursued in coordination with resource sponsors through normal budget processes.

Exhibit R-2, RDTEN Budget Item Justification

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EXHIBIT R-2, RDT&E Budget Item Justification	DATE:	
	February 2006	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-6	0605853N/Management, Technical and International Support	

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

Project 1767 , 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.

Project 3025, This project supports the RDT&E,N and Office of Naval Research (ONR) portion of the larger DoD and Navy-wide effort to implement the Financial Improvement Plan (FIP). Corrective actions required to resolve known deficiencies and determine resource requirements (people and systems) have been identified. Funding beyond FY 2007 is for the sustainment of the clean and auditable statements for RDT&E,N/ONR.

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, identify needs, gaps, and overlaps, and assess 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 Planning, Programming and Budgeting Execution (PPBE) and provides Gap analysis and Investment Strategy (Total Obligational Authority (TOA) allocation). Provides independent capability analysis directly to Chief of Naval Operations (CNO) and assists in structuring follow-on Office of the Chief of Naval Operations (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 (N00X) 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 establish 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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EXHIBIT R-2, RDT&E Budget Item Justification	DATE:
	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME
RDT&E, N / BA-6	0605853N/Management, Technical and International Support

(U) B. PROGRAM CHANGE SUMMARY:

	FY 2005	FY 2006	FY 2007
Funding:			
FY06 President's Budget	30.692	44.847	45.438
FY07 President's Budget	30.080	42.611	47.213
Total Adjustments	-0.612	-2.236	1.775
Summary of Adjustments			
Small Business Innovation Research (SBIR)	-0.509		
Sec. 8026(f): Federally Funded Research and Development Centers		-0.064	
Sec. 8125: Revised Economic Assumptions		-0.204	
Congressional Reduction		-0.468	
Program Adjustments	-0.103	-1.500	1.415
Rate Adjustment			0.360
Subtotal	-0.612	-2.236	1.775

(U). C. Acquisition Strategy:
Not Applicable.

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Exhibit R-2, RDTEN Budget Item Justification
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006

APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHIEF ENGINEER (CHENG)

COST ($ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	12.476	13.842	16.146	17.133	16.748	17.135	17.567
RDT&E Articles Qty							

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Project 3039 funds the Assistant Secretary of the Navy for Research, Development and Acquisition, ASN RD&A Chief Engineer (RDA CHENG) to develop and implement architecture-based systems engineering processes, methods and tools that assure integrated and interoperable systems are delivered to the fleet. This project provides the mission-oriented technical basis for implementing capability-based acquisition management within the Department of Navy 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 initiatives. RDA CHENG consolidated System and Technical Architectures and Large Scale Systems Engineering, in fiscal year 2006, into one Systems Engineering line item to achieve greater synergy. Program increase in fiscal year 2006 includes funding for previously authorized but unfunded DON Anti-Tamper requirement.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHIEF ENGINEER (CHENG)

B. Accomplishments/Planned Program

	FY 2005	FY 2006	FY 2007
Standards, Policy, and Guidelines	3.500	3.400	5.000

FY 2005 ACCOMPLISHMENTS:
- Assessed the Naval Acquisition System process and documents (SECNAVINST 5000.2C and Guidebook) and their alignment with Joint and DOD standards, policies and guidelines and led the development of SECNAVINST 5000.2C Chapter 7 (Systems Engineering and Human Systems Integration) and DON Capabilities and Acquisition Guidebook, Chapter 7.
- Completed assessment of Information Support Plans (ISPs), Joint Battle Management Command and Control (JBMC2) and Integrated Air and Missile Defense Roadmap updates.
- Developed interim FORCEnet Implementation Policy for Acquisition Community with CNO N6/7, NETWARCOM, Systems Commands, Program Executive Offices (PEOs) and Program Managers (PMs).
- Led technical alignment of Navy FORCEnet and Operational Architecture (OA) standards with DOD Information Technology (IT) Registry (DISR) standards and Joint Battle Management Command and Control (JBMC2) subgroups.
- Represented ASN RD&A in the OSD Systems Engineering Forum discussions leading to acquisition policy changes in systems engineering, such as modeling and simulation, reliability and maintainability.

FY 2006 PLAN:
- Continue alignment of standards, policy, and guidelines horizontally and vertically. Provide an integrated quick reference roadmap for acquisition programs on how the policies fit together and provide a comprehensive summary of standards, policy, and guidelines, known issues, processes and specific engineering products.
- Continue technical alignment of Navy FORCEnet and OA standards with DISR standards and JBMC2 subgroups.
- Continue to represent ASN RD&A in the OSD Systems Engineering Forums to address the impact of Family-of-System and System-of-System (FOS/SOS) engineering policy in acquisition.
- Develop FORCEnet Integration and Interoperability Management Plan.

FY 2007 PLAN:
- Continue standards, policy, and guidelines assessments to de-conflict inaccuracies and conflicting information between them and update summary of standards, policy, and guidelines, known issues, processes and specific engineering products for PEOs/PMs, and Systems Commands.
- Continue to represent ASN RD&A in the OSD Systems Engineering Forums and reviews to address FOS/SOS policy in acquisition.
- Continue technical alignment of Navy FORCEnet and OA standards with DISR standards and JBMC2 subgroups.
- Implement FORCEnet Integration and Interoperability Management Plan.
- Continue working with DOD Anti-Tamper Executive Agent on DON policy and implementation and select and evaluate Anti-Tamper technologies in designated areas of interest.

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

B. Accomplishments/Planned Program

	FY 2005	FY 2006	FY 2007
Naval Collaborative Engineering Environment (NCEE	2.076	3.000	3.000

FY 2005 ACCOMPLISHMENTS:
- Implemented external interfaces to the Naval Collaborative Engineering Environment (NCEE) with authoritative DON data bases: conducted Information Management Summit to develop cross domain synergy in data management and usage; instantiated a Naval Air Systems Command (NAVAIR) pilot project to integrate across NAVAIR, USMC Command Development Center (MCCDC) and USMC Systems Command data bases; established FORCEnet implementation baseline (FIBL) integration approach with Space and Warfare Command at Charleston, SC; passed DOD Acquisition Repository System (DARS) benchmark test in the function data area.
- Provided technical support and implemented an initial baseline for the Joint Fires (previously Land Attack) Systems Engineering Integrated Product Team (SE IPT) integrated database. Provided the basis for developing executable architectures to support performance analyses and trade studies.
- Built and implemented a collaborative engineering environment across The Technical Coalition Partners, Technical Panel – 4 member countries.
- Coordinated with Open Architecture (OA) programs on the development of an Open Architecture Asset Repository (OAAR) with web interface (including industry access) for asset control and OA software reuse test cases. Continued test case for the Ship Gridlock System Auto Correlation (SGS/AC) program and the CV aircraft carrier Tactical Support Center (CV/TSC), and test case for DDX destroyer, Ship Self Defense System (SSDS) and AEGIS combat weapon system.
- Established new partner workspaces to provide collaborative capabilities for the Naval Sea Systems Command and Space and Warfare Systems Command (42 main workspaces and 249 sub-workspaces).
- Continued technical collaboration with Joint Forces Command (JFCOM) to identify collaborative engineering environment requirements and mutual work sharing.

FY 2006 PLAN:
- Continue to develop and implement external interfaces to the NCEE with authoritative DON data bases: complete FIBL integration; continue pilot to implement NAVAIR-MCCDC-MARCOR-NCEE data integration; participate in the DARS testing phase on operational data area building tool to receive architectures and translate them into DARS; begin Program Executive Office and Program Manager (PEOs/PMs) repository development, systems engineering tool coordination, collaborative workspaces, lessons learned and verification and validation modules.
- Continue technical support to on going Family-of-System and System-of-System (FOS/SOS) SE IPTs. Evolve workspace and database tool connectivity to support new SE IPTs.
- Complete coordination with OA programs on the development of an OAAR with web interface (including industry access) for asset control and OA software reuse test cases. Complete test cases for the SGS/AC and CV/TSC programs. Complete test case for DDX, SSDS and AEGIS programs.

FY 2007 PLAN:
- Continue to develop and implement external interfaces to the NCEE with authoritative DON data bases: continue PEOs and PMs repository development, systems engineering tool coordination, collaborative workspaces, lessons learned and verification and validation modules for selected major acquisition programs; begin NFDS implementation support; extend capabilities to other services and agencies to support joint initiatives.
- Continue to provide technical support for building the OAAR and its use by associated OA government and industry stakeholders.
- Continue to evolve workspace collaboration, and databases, engineering tools and connectivity to support the DON Enterprise.

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Exhibit R-2, RDTEN Budget Item Justification
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHIEF ENGINEER (CHENG)

B. Accomplishments/Planned Program

	FY 2005	FY 2006	FY 2007
System and Technical Architectures	3.000		

FY 2005 ACCOMPLISHMENTS:
- Implemented the integrated architecture governance process and the Common System Function List (CSFL) configuration management within other DON processes such as FORCEnet, Virtual Systems Command, and Information Support Plan (ISP) review. Serve as voting/Advisory member of the FORCEnet Integrated Architecture Governance process.
- Aligned DON architecture process with evolving Joint and OSD initiatives such as Joint Battle Management Command and Control (JBMC2) actions.
- Developed standardized Naval Architecture Taxonomies including System Functions and Operational Activities to ensure common, relatable architecture development as basis for integration and validation of Sea Power 21 and Marine Corps Strategy 21 pillars against Joint and Global Information Grid (GIG) integrated architectures.
- Supported Joint Fires (previously Land Attack) architecture development.
- Represented DON on OSD 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.

FY 2006 PLAN:
- Transferred to Systems Engineering line item.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3039 CHIEF ENGINEER (CHENG)

B. Accomplishments/Planned Program

	FY 2005	FY 2006	FY 2007
Large Scale Systems Engineering	3.900		

FY 2005 ACCOMPLISHMENTS:
- Developed Joint Fires (previously Land Attack) System Engineering Integrated Product Team (SE IPT) "current" and "future" executable architectures and model; System Performance Document (SPD) and lessons learned.
- Participated in the development of the Naval Integrated Fire Control - Counter Air (NIFC-CA) SPD, System Engineering Plan (SEP) and Risk Assessment.
- Provided Wideband Network Waveform (WNW) SE IPT technical support in the development and approval of the Charter, SPD, Risk Management Plan and Operational Architectures.
- Developed and promulgated Naval Capabilities Evolution Process (Family-of-Systems / System-of-Systems) Guidebook Volume I Version 1.1.
- Engineered a Naval Force Development System (NFDS) assessment of organizations and processes that tie together the Joint Capability Development System (JCIDS), Planning, Programming, Budgeting Execution System (PPBE), and the Defense Acquisition System in response to ASN (RD&A) direction. Conducted reviews on Combat Identification and Undersea Warfare capability areas.

FY 2006 PLAN:
- Transferred to Systems Engineering line item.

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

B. Accomplishments/Planned Program

	FY 2005	FY 2006	FY 2007
Systems Engineering		7.442	8.146

FY 2005 ACCOMPLISHMENTS:
- See System and Technical Architectures and Large Scale Systems Engineering line item.

FY 2006 PLAN:
- Manage and evolve DON architecture governance process, guidance and relationship with Joint and OSD architecture processes.
- Perform Sea Strike, Sea Shield, Sea Basing and FORCEnet integrated architecture assessments as the basis for representing a Naval architecture for use in Joint and OSD communities.
- Complete 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.
- Continue Navy technical support to OSD and Joint engineering initiatives such as: 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.
- Develop and promulgate Volume II of the Naval Capabilities Evolution Process Guidebook to include architecture best practices.
- Continue technical support to on going Family-of-Systems / System-of-Systems (FOS/SOS) System Engineering Integrated Product Teams (SE IPTs) and initiate new SE IPTs to support CNO priority capability needs.
- Provide 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.
- Develop and promulgate guidance implementing OSD and DON systems engineering revitalization recommendations, modeling and simulation, test and evaluation and integration and interoperability certification.
- Develop a plan of action and milestones and initiate implementation of major finding of the Naval Force Development System (NFDS) assessment including associated changes to SECNAVINST 5000.2C acquisition, capabilities, policies and procedures.

FY 2007 PLAN:
- Develop and promulgate technical basis for portfolio level Family-of-System and System-of-System (FOS/SOS) capability based acquisition.
- Perform Naval Power 21 capabilities-based, Integrated Architecture product assessments.
- Revise and promulgate Naval Capabilities Evolution Process Guidebook (Volumes I and II) to include lessons learned.
- Continue technical support to on going FOS/SOS SE IPTs and initiate new SE IPTs to support CNO priority capability needs.
- Continue technical support for development of acquisition milestone documentation and Integration and Interoperability Risk Identification assessments in support of DD (X), ADS, LHA (R), DJC2 and the LCS Program Executive Offices.
- Continue implementation of recommended NFDS assessment process and product improvements.

CLASSIFICATION:

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

    C. OTHER PROGRAM FUNDING SUMMARY:

     Not Applicable

    D. ACQUISITION STRATEGY: Not Applicable

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EXHIBIT R-2a, RDT&E Project Justification				DATE: **February 2006**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	0605853N/Management, Technical, and International Support			PROJECT NUMBER AND NAME 0149 International Cooperative RDT&E			
COST ($ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
*Project Cost	1.624	1.696	4.756	4.837	4.897	4.957	5.019
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 command (COCOMs), N3/5, 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 FY05 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), Senior National Representative-Maritime (SNR-M);
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 (CWP) Program.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	0605853N/Management, Technical, and International Support	PROJECT NUMBER AND NAME 0149 International Cooperative RDT&E

B. Peformance Metrics:

The Navy International Cooperative RDT&E Project 0149 supports the implementation of many international cooperative program activities throughout the DoN RDT&E communities. The project funds DoN participation in NATO and OSD-lead Armaments Cooperation fora as well as DoN-lead international cooperation fora 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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Exhibit R-2a, RDTEN Project Justification

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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 0149 International Cooperative RDT&E

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
International Coop	1.624	1.696	4.756	

FY 2005 ACCOMPLISHMENTS:

As directed by the CNO's FY05-06 Maritime Security Guidance and in coordination with COCOMs and N6/7:
- Defined 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 C4I with maritime partner nations.

Continued cooperative programs and added new emphasis on acquisition of GWOT and MDA technologies with friendly nations and new allies. Worked with U.S. DoD, 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 USN 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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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 0149 International Cooperative RDT&E

B. Accomplishments/Planned Program

FY 2006 PLANS:
FY 06 plans will see a continuation of FY05's new mission efforts. In coordination with Combatant Commanders, US State Department, Office of Defense Coordination, Office of Naval Research, and Navy International Programs Office, SNR will assess, identify, prioritize and engage in cooperative projects and exchanges with friendly and allied countries particularly in GWOT and 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 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 and capabilities

FY 2007 PLANS:
- Beginning in FY07, 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, 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.
- Continue all efforts of FY06 less those noted as completed above.

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Exhibit R-2a, RDTEN Project Justification
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: **February 2006**	
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 0149 International Cooperative RDT&E

C. OTHER PROGRAM FUNDING SUMMARY:

Not Applicable

D. ACQUISITION STRATEGY: Not Applicable

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UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE: **February 2006**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	0605853N/Management, Technical and International Support			PROJECT NUMBER AND NAME 1767 Naval War College/Center for Naval Warfare Studies			
COST ($ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
*Project Cost	2.352	3.262	3.087	3.235	3.316	3.356	3.426
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, and 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 options for the President of the United States.

Performance Metrics: This is a level of effort project to provide research 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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Exhibit R-2a, RDTEN Project Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 1767 Naval War College/Center for Naval Warfare Studies

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Strategic Studies	1.251	1.665	1.511

NWC conducts research in strategic studies in response to tasking from the Secretary of the Navy (SECNAV), CNO, Fleet, numbered Fleet, and Combatant Commanders. 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 2005 ACCOMPLISHMENTS:
NWC conducted strategic research, analysis and studies in response to SECNAV, CNO, Fleet, numbered Fleet, and Combatant Commander tasking in such areas as maritime strategy, decision support, and direct fleet support. Efforts included research and analysis support for Sea Power 21, Sea Basing, Maritime Strategy, Navy missions and requirements for the Global War on Terror, globalization and counter proliferation strategies, theater Anti Submarine Warfare Ballistic Missile Defense, Proliferation Security Initiative and Naval/Defense Transformation. The CNO's SSG completed an examination of the Future Maritime Operating Environment for the fight against global terrorism to determine maritime operational concepts needed in 2030 and beyond.

FY 2006 PLANS:
Continue to conduct strategic studies in response to SECNAV, CNO, Fleet, numbered Fleet, and Combatant Commander tasking in the areas of maritime strategy, decision support, direct fleet support and maritime domain awareness. The CNO's SSG will continue to conduct warfighting innovation and revolutionary concept generation in response to direct tasking from the CNO.

FY 2007 PLANS:
Continue to conduct strategic studies in response to SECNAV, CNO, Fleet, numbered Fleet, and Combatant Commander tasking in such areas as maritime strategy, decision support, direct fleet support and maritime domain awareness. The CNO's SSG will continue to conduct warfighting innovation and revolutionary concept generation in response to direct tasking from the CNO.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-6	0605853N/Management, Technical and International Support	1767 Naval War College/Center for Naval Warfare Studies

B. Accomplishments/Planned Program (Cont.)

	FY 05	FY 06	FY 07
Naval War gaming Support	1.030	1.522	1.498

As the nation's premier defense war gaming center, 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 2005 ACCOMPLISHMENTS:
Conducted 30-40 war gaming and associated activities in support of OPNAV staff, Naval Warfare Development Command (NWDC) and the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Major war gaming efforts included games in support of research on networked Command and Control (C2), maritime homeland defense, Sea Basing, SEA TRIAL, advanced Command and Control, and Nuclear Guided Missile Submarines (SSGN) future capabilities. Began to develop a Joint Forces Maritime Component Commanders (JFMCC) Center of Excellence with operational research and experimentation capability.

FY 2006 PLANS:
Conduct 50-55 major war games and related events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Develop networked warfare war gaming system in order to support research on networked C2. Conduct operational research and experimentation for JFMCC concept development via JFMCC Center of Excellence. Continue 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.   Conduct research supporting war games co-sponsored with NWDC and US Joint Forces Command. Develop advanced war gaming analytical methods and tools.

FY 2007 PLANS:
Conduct 50-55 major war games and related events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. 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.   Conduct research supporting war games co-sponsored with NWDC and US Joint Forces Command. Develop advanced war gaming analytical methods and tools.

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APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 1767 Naval War College/Center for Naval Warfare Studies

B. Accomplishments/Planned Program (Cont.)

	FY 05	FY 06	FY 07
NWC Student Research Projects	0.071	0.075	0.078

Selected, top-performing NWC students 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 2005 ACCOMPLISHMENTS:
Conducted focused research and analysis of current and future strategic and operational challenges under the Mahan Scholars and Halsey Group programs. Completed projects that have been presented to the CNO include a Theater Ballistic Missile Defense Concept of Operations, Theater Anti Submarine Warfare (ASW) Concept of Operations, Seabasing and Strategies of War Termination. All represent real world strategic and operational challenges of concern to the CNO.

FY 2006 PLANS:
Continue to conduct focused research and analysis of current and future strategic and operational challenges and tactical imperatives by the Mahan Scholars and Halsey Group programs.

FY 2007 PLANS:
Continue to conduct focused research and analysis of current and future strategic and operational challenges and tactical imperatives by the Mahan Scholars and Halsey Group programs.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 1767 Naval War College/Center for Naval Warfare Studies
C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable **D. ACQUISITION STRATEGY:** Not Applicable		

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: **February 2006**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	0605853N/Management, Technical, and International Support				PROJECT NUMBER AND NAME 3025 Mid-Range Financial Improvement Plans			
COST ($ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
*Project Cost	2.349	2.008	1.526	1.556	1.558	1.594	1.634	
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

One of the DoD's and Navy's priority goals is to gain a clean and auditable financial statement by FY 2007. The OSD Comptroller, in his 08 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 statements for RDT&E,N.

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

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Exhibit R-2a, RDTEN Project Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3025 Mid-Range Financial Improvement Plans

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Financial Improvements	2.349	2.008	1.526

FY 2005 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 2006 PLANS:
- Continue to post obligations within the reporting period in which they are incurred.
- Continue to pursue and expand the practice of having major contracting activities post awards electronically to STARS.
- Continue to perform obligation validation to ensure that posted obligations are accurate. With the sheer volume of obligation documents to validate, this is a labor intensive effort requiring follow-up work to electronically requested validations.
- Continue to revise accounts receivable process to more accurately record collections. Venture to utilize Overnight Collections History special reports available via the East Coast CA -View region.
- Continue to manually record AP when material or service is received and accepted. Assuming a functional AP input screen is available in STARS-HCM, develop process to gather receipt/acceptance data from logistical operations side of the house and/or contractors.
- Continue monitoring to prevent duplication in vendor pay accounting system, STARS One Pay, as invoices are settled.
- Continue to eliminate problem disbursements older than 120 days, narrowing to 60 days and potentially narrowing even further.

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Exhibit R-2a, RDTEN Project Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE:
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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-6	0605853N/Management, Technical and International Support	3025 Mid-Range Financial Improvement Plans

B. Accomplishments/Planned Program

FY 2007 PLANS:
- Continue to post obligations within the reporting period in which they are incurred.
- Continue to pursue and expand the practice of having major contracting activities post awards electronically to STARS.
- Continue to perform obligation validation to ensure that posted obligations are accurate. With the sheer volume of obligation documents to validate, this is a labor intensive effort requiring follow-up work to electronically requested validations.
- Continue to revise accounts receivable process to more accurately record collections. Venture to utilize Overnight Collections History special reports available via the East Coast CA -View region.
- Continue to manually record AP when material or service is received and accepted. Assuming a functional AP input screen is available in STARS-HCM, develop process to gather receipt/acceptance data from logistical operations side of the house and/or contractors.
- Continue monitoring to prevent duplication in vendor pay accounting system, STARS One Pay, as invoices are settled.
- Continue to eliminate problem disbursements older than 120 days, narrowing to 60 days and potentially narrowing even further.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 3025 Mid-Range Financial Improvement Plans

    C. OTHER PROGRAM FUNDING SUMMARY:

      Not Applicable

    D. ACQUISITION STRATEGY: Not Applicable

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EXHIBIT R-2a, RDT&E Project Justification				DATE: **February 2006**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support			PROJECT NUMBER AND NAME 2221 Assessment Program			
COST ($ in Millions)		**FY 2005**	**FY 2006**	**FY 2007**	**FY 2008**	**FY 2009**	**FY 2010**	**FY2011**
Project Cost		11.279	21.803	21.698	22.237	22.687	22.848	23.425
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, identify needs, gaps, and overlaps, and assess 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 Planning, Programming and Budgeting Execution (PPBE) and provides Gap analysis and Investment Strategy (Total Obligational Authority (TOA) allocation). Provides independent capability analysis directly to Chief of Naval Operations (CNO) and assists in structuring follow-on Office of the Chief of Naval Operations (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-hatted as the head of CNO's Capability Analysis Group (N00X) 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 establish 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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EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2006**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-6**	PROGRAM ELEMENT NUMBER AND NAME 0605853N/Management, Technical and International Support	PROJECT NUMBER AND NAME 2221 Assessment Program

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Navy Standard Scenarios	1.232	1.330	1.451

FY 2005 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.

FY 2006 PLAN:
Continue to develop, update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance. Develop Alternative Scenarios in Support of Quadrennial Defense Review (QDR), Joint Studies, and Navy Resource Analyses.

FY 2007 PLAN:
Continue to develop, update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance. Develop Alternative Scenarios in Support of Quadrennial Defense Review (QDR), Joint Studies, and Navy Resource Analyses.

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

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Capability Based Assessments	2.321	2.506	2.732

FY 2005 ACCOMPLISHMENTS:
Capability Sponsors' Products. Collaborative assessment with capability sponsors . Proactively participated in Capability Sponsors' Integrated Processing Teams (IPTs). Presented opposing, analytically-based points of view . Performed analytically-based decision recommendations to CNO for both warfighting and support areas. Developed CNO Investment Strategy recommendations and performed assessments and developed the Chief of Naval Operations Program Analysis Memoranda (CPAM). Assessed capability sponsor products for senior leadership decision forums. Verification, Validation & Accreditation (VV&A) of warfare/performance/pricing models. Assessed all results relating to Sea Enterprise initiatives (Skunkworks, Level of Effort (LOE) review, etc).

FY 2006 PLAN:
Continue Capability Sponsors' Products. Collaborative assessment with capability sponsors . Proactively participate in Capability Sponsors' Integrated Processing Teams (IPTs). Present opposing, analytically-based points of view . Perform analytically-based decision recommendations to CNO for both warfighting and support areas. Develop CNO Investment Strategy recommendations and perform assessments and develop the Chief of Naval Operations Program Analysis Memoranda (CPAM). Assess capability sponsor products for senior leadership decision forums. Verification, Validation & Accreditation (VV&A) of warfare/performance/pricing models. Assess all results relating to Sea Enterprise initiatives and lead where appropriate (Skunkworks, Level of Effort (LOE) review, etc).

FY 2007 PLAN:
Continue Capability Sponsors' Products. Collaborative assessment with capability sponsors . Proactively participate in Capability Sponsors' Integrated Processing Teams (IPTs). Present opposing, analytically-based points of view . Perform analytically-based decision recommendations to CNO for both warfighting and support areas. Develop CNO Investment Strategy recommendations and perform assessments and develop the Chief of Naval Operations Program Analysis Memoranda (CPAM).   Assess capability sponsor products for senior leadership decision forums. Verification, Validation & Accreditation (VV&A) of warfare/performance/pricing models. Assess all results relating to Sea Enterprise initiatives and lead where appropriate (Skunkworks, Level of Effort (LOE) review, etc).

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

B. Accomplishments/Planned Program

	FY 05	FY 06	FY07
Campaign Analysis - Modeling and Simulation	6.217	6.700	6.581

FY 2005 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.

FY 2006 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. Lead Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Provide path and structure for coordination across the Navy. Broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data.

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. Lead Navy's participation in Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. Provide path and structure for coordination across the Navy. Broker agreed upon assumptions, Concept of Operations (CONOPS), scenarios and data.

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

B. Accomplishments/Planned Program (Cont.)

	FY 05	FY 06	FY 07
OSD/Joint Staff Study Analysis & Assessment	1.509	1.629	1.772

FY 2005 ACCOMPLISHMENTS:
Continued to lead Joint Requirements Oversight Council (JROC), Joint Capabilities Board (JCB), and Functional Capabilities Board (FCB), participation. Led 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. Promoted and defended Navy Program Objectives Memorandum (POM). Provided participation in Office of the Secretary of Defense (OSD) and Joint Staff analysis assessment and provided structure for coordination across the Navy. 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. Created an analytic infrastructure of data of forces, units, equipment, data, Red and Blue Concept of Operations (CONOPS). Continued to coordinate/support Joint Analytical Model Improvement Program (JAMIP).

FY 2006 PLAN:
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 Process (SPG), and participate in Capability Sponsors' Integrated Processing Teams (IPTs). Lead Campaign Analysis for Office of the Chief of Naval Operations (OPNAV). Provide overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance. Perform analytically-based decision recommendations to Chief of Naval Operations (CNO) for both warfighting and support areas. Develop CNO Investment Strategy. Conduct Net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums.

FY 2007 PLAN:
Continue to coordinate/Lead 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 Process (SPG), and participate in Capability Sponsors' Integrated Processing Teams IIPTs). Lead Campaign Analysis for Office of the Chief of Naval Operations (OPNAV). Provide overarching Planning, Programming and Budgeting System (PPBS) analyses and guidance. Perform analytically-based decision recommendations to Chief of Naval Operations (CNO) for both warfighting and support areas. Develop CNO Investment Strategy. Conduct Net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums.

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

B. Accomplishments/Planned Program (Cont.)

	FY 05	FY 06	FY 07
World Class Modeling, Simulation, and Capability Analysis	0.000	9.638	9.162

FY 2006 PLAN:
Takes 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. It also includes the development of new models in new mission areas (including Expeditionary Warfare (EXWAR), Command, Control, Communication, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR), Force Protection/Anti-Terrorism (FP/AT), Information Operations (IO), & Global War on Terrorism (GWOT)), assessments and improvements of current models to better reflect Navy's developing capabilities, provision for rigorous Verification, Validation, and Accreditation of Navy models.

Provides the Navy with concise and innovative analyses and assessment to help optimize Navy Programs and investment decisions. Supports 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. Evaluates 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. Supports Fleet Readiness and Logistics modeling and simulation.

FY 2007 PLAN:
Continue to provide the Navy with concise and innovative analyses and assessment to help optimize Navy Programs and investment decisions. Supports 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. Evaluates 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. Supports Fleet Readiness and Logistics M&S.

Improve OPNAV analysis tools used for requirements determination and effectiveness evaluation. Improve the ability to model emerging security challenges and operations concepts (Irregular, Catastrophic, Disruptive challenges). Develop optimization models that work across multiple warfare areas. Improve the traceability of data through the modeling hierarchy. Refine the linkages between cost and mission performance in performance-modeled acquisition programs.

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

   C. OTHER PROGRAM FUNDING SUMMARY:

     Not Applicable.

   D. ACQUISITION STRATEGY:

     Not Applicable.