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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>											
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	44.635	83.494	72.070	-	72.070	76.569	79.968	81.630	83.636	Continuing	Continuing
0149: <i>International Coop RDT&E</i>	0.000	2.924	4.316	3.608	-	3.608	3.325	3.417	3.493	3.538	Continuing	Continuing
1767: <i>Naval War Col Strategic Studies Supt</i>	0.000	3.183	5.313	4.762	-	4.762	4.422	4.496	4.609	4.719	Continuing	Continuing
2098: <i>Navy Postgraduate School (NPS) Studies Support</i>	0.000	-	14.000	5.000	-	5.000	-	-	-	-	-	19.000
2221.: <i>JT Mission Assessment Studies</i>	0.000	10.765	23.012	24.912	-	24.912	22.682	25.123	25.996	26.868	Continuing	Continuing
2801: <i>Anti-Tamper</i>	0.000	-	-	1.374	-	1.374	1.374	1.374	1.374	1.374	Continuing	Continuing
3025: <i>Mid-Range Financial Improvement Plans</i>	0.000	0.573	0.879	0.717	-	0.717	0.670	0.705	0.717	0.738	Continuing	Continuing
3039: <i>CHENG</i>	0.000	12.542	18.631	13.241	-	13.241	13.937	14.296	14.605	14.970	Continuing	Continuing
3330: <i>Naval Research Laboratory (NRL) Facilities Modernization</i>	0.000	2.191	2.393	1.611	-	1.611	15.214	15.617	15.896	16.205	Continuing	Continuing
3363: <i>PACOM Initiative</i>	0.000	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing
3381: <i>JIE Initiative</i>	0.000	-	-	8.900	-	8.900	-	-	-	-	-	8.900
9999: <i>Congressional Adds</i>	0.000	12.457	7.000	-	-	-	-	-	-	-	-	19.457

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

International Cooperative RDT&E: provide program management, execution, and support to implement a broad range of cooperative Naval Research and Development, Test and Evaluation initiatives to improve coalition interoperability, harmonize US Navy requirements with allied and friendly nations, and identify cooperative international opportunities, and improve coalition interoperability. In addition, it develops coherent approaches, coordinating with partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), and cooperative acquisition programs while also identifying technology to support the Global Maritime Partnership initiative.

Naval War College Strategic Studies Support: Provides research, analysis and gaming activities which serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, joint and interagency communities. These efforts generate strategic and operational alternatives, quantitative analysis, war

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gaming and political military assessments, and provide recommendations regarding the formulation and execution of maritime options . The War Gaming Department plans, designs, executes, analyzes and reports on the Navy's Title 10 war games. These war games provide analytical input to the Navy's Strategic Plan, assessments of future concepts, and recommendations to the Navy's Quadrennial Defense Review, force design, and strategy process. The War Gaming Department also designs, executes and analyzes war games for theater security cooperation plans and operational war fighting issues. Assessment Program: The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect war fighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations (CONOPS), Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/ basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense (DoD) M&S community. It provides Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. It 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. Mid-Range Financial Improvement Plans: This project supports the Research Development Test & Evaluation, Navy (RDTEN) portion of the larger DoD and Navy-wide effort to implement the financial improvement plan. Funding is for the sustainment of clean and auditable statements for RDTEN. Operations Integration Group: Classified CHENG: Develops and implements 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 Navy 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 war fighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy		

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and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DoN, Office of the Secretary of Defense (OSD) and Joint integration and interoperability and Anti-Tamper initiatives.

Naval Research Laboratory (NRL) Facilities Modernization: This program has been established to provide a systematic and planned approach to improve vital in-house science and technology (S&T) laboratory facilities which are reaching or have reached critical stages of deterioration. The program includes restoration and modernization (R&M) initiatives for about 350,000 net square feet, where the average age of the buildings is 67 years old.

The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	32.782	76.585	81.087	-	81.087
Current President's Budget	44.635	83.494	72.070	-	72.070
Total Adjustments	11.853	6.909	-9.017	-	-9.017
• Congressional General Reductions	-	-0.091			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	7.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.500	-			
• SBIR/STTR Transfer	-0.567	-			
• Program Adjustments	-	-	2.263	-	2.263
• Rate/Misc Adjustments	-	-	-11.280	-	-11.280
• Congressional General Reductions	-4.080	-	-	-	-
Adjustments					
• Congressional Add Adjustments	15.000	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Printed Circuit Board Executive Agent*

FY 2013	FY 2014
12.457	7.000

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Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2013	FY 2014
Congressional Add Subtotals for Project: 9999		12.457	7.000
Congressional Add Totals for all Projects		12.457	7.000

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 0149 / International Coop RDT&E			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0149: International Coop RDT&E	-	2.924	4.316	3.608	-	3.608	3.325	3.417	3.493	3.538	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Provides program management, execution, and support to implement a broad range of cooperative naval Research and Development, Test and Evaluation (RDT&E) initiatives to improve coalition interoperability, harmonize US 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), and appropriate partner nations, to sea-based missile defense, command, control, communications, computers and intelligence (C4I), and cooperative acquisition programs while also identifying technology to support the Global Maritime Partnership Initiative.												
The project scope supports the strategic shift to the Pacific Region with emphasis on Maritime Domain Awareness (MDA) and Coalition Interoperability. Relationships have been, and are being initiated with a greatly expanded and diverse group of maritime countries, particularly those with nascent and littoral navies. 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 Coalition Interoperability requirements.												
Ongoing cooperative RDT&E programs, projects and exchanges are pursued to identify cooperative acquisition programs, enhance OCO efforts and MDA development, fill capability gaps, improve US/coalition interoperability, and set standardization with international partners. Such efforts have resulted in:												
1. Negotiating and developing approximately 57 international RDT&E Agreements annually with allied and friendly nations;												
2. Executing approximately 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. Coordinating Navy inputs to the Office of the Under Secretary of Defense (OUSD) Acquisition, Technology, and Logistics (AT&L) Foreign Comparative Test (FCT) Program, and Coalition Warfare Program (CWT) as well as the DoN Technology Transfer Security Assistance Review Boards (TTSARB).												
5. Represent the US Navy in Office of the Secretary of Defense (OSD) directed Armaments Cooperation Forums, including the Conference of NATO Armaments Directors' groups {NATO Naval Armaments Group (NNAG)}, and Senior National Representative-Maritime (SNR-M);												
6. 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).												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: International Coop RDT&E									2.924	4.316	3.608	
Articles:									-	-	-	

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 0149 / <i>International Coop RDT&E</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
<i>FY 2013 Accomplishments:</i> - Continued to support Maritime Theater Missile Defense (MTMD) Forum that obtained \$8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries adn the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015. -Continued execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continued execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capabiltiy requirements. -Funded various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinated US Navy Support to OUSD (AT&L) International Cooperation Office. -Supported new CNO-Initiated Strategy Dialogue with Australia, including Air and Expeditionary Warfare Working Groups for mutual development of requirements and projects. Supported NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continued execution of Expeditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Exeuction of Commnication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continued execution and support of NATO Maritime EW Trials/NATO Travel. -Execution of Army Contract SME TRI MAG Table Top Exercise. <i>FY 2014 Plans:</i> - Continue all efforts of FY13; - Continue to support Maritime Theater Missile Defense (MTMD) Forum that obtained \$8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries adn the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015.			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
-Continue execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continue execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capability requirements. -Fund various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinate US Navy Support to OUSD (AT&L) International Cooperation Office. -Support new CNO-Initiated Strategy Dialogue with Australia, including Air and Expeditionary Warfare Working Groups for mutual development of requirements and projects. Support NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continue execution of Expeditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Execution of Communication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continue execution and support of NATO Maritime EW Trials/NATO Travel. FY 2015 Plans: -Continue all efforts of FY14. - Continue to support Maritime Theater Missile Defense (MTMD) Forum that obtained \$8.1M in R&D monies from Partner Nation contributions. The multi-lateral forum (9 Maritime Partner countries and the US Navy) entered into four international agreements (Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I); Distributed Engineering Plant; Open Architecture; and Modeling and Simulation (M&S). The MTMD has a goal of an at-sea capability demonstration in 2015. -Continue execution of approximately 300 Information Exchange Agreements/Date Exchange Agreements (IEA/DEA)with more than 30 countries. -Continue execution and support in placement of US Navy and partner nation engineers and scientists under OSD's Engineer and Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) Foreign Comparative Test (FCT) and coalition Warfare Program (CWP) selection processes to meet emerging military capability requirements.			

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 0149 / <i>International Coop RDT&E</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
-Fund various evolving potential cooperative exchanges and projects contribution to Maritime Domain Awareness (MDA) and irregular warfare including Multi-Mission Aircraft (MMA), Broad Area Maritime Surveillance (BAMS), Submarine Littoral Weapons System, and Swimmer Engagement. Coordinate US Navy Support to OUSD (AT&L) International Cooperation Office. -Support new CNO-Initiated Strategy Dialogue with Australia, including Air and Expeditionary Warfare Working Groups for mutual development of requirements and projects. Support NATO Naval Armaments Group (NNAG) and Five Power Groups on cooperative programs including harbor protection, electronic warfare, and Defense Against Terrorism (DAT) trials. -Continue execution of Expeditionary Warfare Working Group (EWWG). -Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Execution of Communication and Information Warfare Working Group (CIWWG). -Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continue execution and support of NATO Maritime EW Trials/NATO Travel.			
Accomplishments/Planned Programs Subtotals		2.924	4.316
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
The Navy International Cooperative RDT&E project supports the implementation of many international cooperative program activities throughout the Department of the Navy (DoN) RDT&E communities. The project funds DoN participation in NATO and OSD lead Armaments Cooperation as well as DoN lead international cooperation that promotes coalition interoperability and set standards with international partners. The focused activities under this project maximize the DoN's efforts by leveraging international technologies and funding to fill capabilities gaps, gain access to foreign research and testing data, and avoid duplication of research and development efforts. The performance goals and metrics are, in cooperation with Maritime Partner nations, to set and harmonize requirements, utilize respective technologies, encourage financial contributions and facilities use, and support forums and work that reduce DoN funding requirements.			

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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 1767 / Naval War Col Strategic Studies Supt			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1767: Naval War Col Strategic Studies Supt	-	3.183	5.313	4.762	-	4.762	4.422	4.496	4.609	4.719	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Naval War College (NWC) research, analysis and gaming activities serve as a focal point, stimulus, and major source of strategic and operational thought within the Navy, Joint and Interagency communities. These efforts generate strategic and operational alternatives, tactical imperatives, quantitative analysis, war gaming, political-military assessments, and provide recommendations to the Chief of Naval Operations (CNO), Fleet Commanders and numbered Fleet Commanders regarding the formulation and execution of maritime options for the President of the United States.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Strategic Studies									1.333	1.483	1.476	
									Articles: -	-	-	
Description: Naval War College (NWC) conducts research in strategic studies in response to tasking from the Secretary of the Navy (SECNAV), Chief of Naval Operation (CNO), Fleet Commanders, numbered Fleet Commanders, 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 2013 Accomplishments:												
- Conducted research and analysis projects and provided supporting events for Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Navy Component Commanders, and the Combatant Commanders.												
- Provided support for OPNAV Staff on operational and strategic level of war tasked research projects.												
- Conducted CNO SSG tasking from the CNO to SSG XXXI to generate revolutionary operating and warfighting concepts for maritime operations in the age of hypersonic and directed energy weapons. Followed up on CNO and OPNAV actions resulting from SSG XXX Final Report "The Unmanned Imperative."												
- Conducted research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provided studies and advice for the CNO and the fleet.												
FY 2014 Plans:												
- Continue research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Navy Component Commanders, and the Combatant Commanders.												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
- Continue to support the OPNAV Staff on tasked research projects. - Continue CNO SSG tasking from the CNO to SSG XXXII to generate revolutionary operating and warfighting concepts for future Navy and maritime operations. Follow up on CNO and OPNAV actions resulting from SSG XXXI Final Report. - Continue research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provide studies and advice for the CNO and the fleet. - Conduct research in support of the refresh to the Navy's Strategy "Cooperative Strategy for the 21st Century." FY 2015 Plans: - Continue research and analysis projects and provide supporting events for OPNAV, the numbered Fleets, Navy Component Commanders, and the Combatant Commanders. - Continue to support the OPNAV Staff on tasked research projects. - Continue CNO SSG tasking from the CNO to SSG XXXIII to generate revolutionary operating and warfighting concepts for future Navy and maritime operations. Follow up on CNO and OPNAV actions resulting from SSG XXXII Final Report. - Continue research into the Chinese Maritime capabilities and affairs in order to enhance understanding of global developments and provide studies and advice for the CNO and the fleet.				
Title: Naval War Gaming Support Articles: Description: Naval War College (NWC) conducts strategic and operational war gaming and research for Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Each year, 55-60 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 2013 Accomplishments: - Conducted over 40-45 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continued support for CNO and OPNAV with Navy Title X war games, research, and analysis. Continued to provide war gaming expertise to other services' Title 10 war games. - Continued to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR - Continued to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continued to conduct research supporting war games co-sponsored with Naval Warfare Development Command		1.593 -	2.721 -	2.528 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
(NWDC) and US Joint Forces Command. - Continued to conduct analytic research on maritime security cooperation planning for forward based fleets. - Supported Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection. - Continued to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continued to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for the Office of the Secretary of Defense (OSD). - Continued war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continued International War Gaming in support of Maritime Security Cooperation and implementation of Cooperative Strategy for 21st Century Seapower. - Continued to conduct research and analysis on key operational challenges such as theater anti-submarine Warfare, maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and sea basing. FY 2014 Plans: - Continue to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continue to support CNO and OPNAV with Navy Title X war games, research, and analysis. Continue to provide war gaming expertise to other services' Title 10 war games. - Continue to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR. - Continue to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continue to conduct research supporting war games co-sponsored with Naval Warfare Development Command (NWDC). - Continue to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continue to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for the Office of the Secretary of Defense (OSD). - Continue war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continue International War Gaming in support of Maritime Security Cooperation and implementation of Cooperative Strategy for 21st Century Seapower.			

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 1767 / <i>Naval War Col Strategic Studies Supt</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
- Continue to conduct research and analysis on key operational challenges such as theater anti-submarine Warfare, maritime missile defense, global maritime security, maritime homeland defense, maritime domain awareness, and sea basing. - Develop educational materials for the Maritime Advanced Warfighting School. FY 2015 Plans: - Continue to conduct 55-60 major war games and related events in support of OPNAV, the numbered Fleets, and the Combatant Commands. - Continue to support CNO and OPNAV with Navy Title X war games, research, and analysis. Continue to provide war gaming expertise to other services' Title 10 war games. - Continue to provide research, analysis, and war gaming support to senior Navy leadership in areas as directed, such as MDA, Irregular Warfare, cyber, and C4ISR. - Continue to foster and sustain cooperative relationships with international partners through the use of war gaming, research, and analysis. - Continue to conduct research supporting war games co-sponsored with Naval Warfare Development Command (NWDC). - Continue to support Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection. - Continue to conduct advanced research and analysis for OPNAV on determining measures of effectiveness for the implementation of Cooperative Strategy for 21st Century Seapower. - Continue to conduct high level policy analytic research and gaming addressing Proliferation Security Initiatives for Office of the Secretary of Defense (OSD). - Continue war gaming, research and analytical support for Navy core capabilities, such as deterrence, maritime security, and sea control. - Continue to develop educational materials for the Maritime Advanced Warfighting School. - Continue to conduct research and analysis on key operational challenges such as theater ASW, IAMD, global maritime security, maritime homeland defense, MDA, and sea basing. - Continue to conduct research, analysis, and gaming on current area denial and anti access issues confronting naval forces. - Conduct research, analysis, and war gaming of emerging concepts such as anti access and area denial and air sea battle. - Provide research, analysis, and war gaming in support of Navy and Marine Corps issues identified by the Naval Board. - Conduct analytic research on maritime security cooperation planning for forward based fleets. - Lead the effort to conduct analytical research in operational concepts of Cyber Warfare. - Advance the concept of cyber war gaming, including development of cyber Common Operational Picture.			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 1767 / Naval War Col Strategic Studies Supt		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
- Support Fleet Commanders and advance concepts in war fighting areas of interest, such as critical infrastructure protection and counter piracy. - Support Fleet Commanders with high quality Course of Action Analysis and war games of operational plans. - Provide direct support to Navy operational level programs such as the maritime staff Operators Course, Executive Leaders Operational Course, CFMCC Course, and JFMCC Course. - Develop advanced war gaming analytical methods and tools such as the use of multi touch multi user boards and web based applications.				
Title: Warfare Analysis and Research Description: 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. FY 2013 Accomplishments: - Conducted major decision events in support of Office of the Chief of Naval Operations (OPNAV), the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects were in direct support of warfighting analysis requirements for numbered fleet commanders and were expanded to include Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Conducted analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness, maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continued additional evaluation of concepts and decision events in conjunction with war gaming center. - Conducted research targeted at the strategic and policy level decision making within China. - Provided direct support to NWC student research groups and war gaming. - 20-30 major decisions were conducted in support of these efforts. FY 2014 Plans: - Continue to conduct major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects are in direct support of warfighting analysis requirements for numbered fleet commanders and will expand to include the Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Continue to conduct analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness,		Articles: 0.236 -	0.380 -	0.421 -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 6		R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>		Project (Number/Name) 1767 / <i>Naval War Col Strategic Studies Supt</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continue additional evaluation of concepts and decision events in conjunction with war gaming center. - Continue to conduct research targeted at the strategic and policy level decision making within China. - Continue to provide direct support to NWC student research groups and war gaming. - 25-30 major decision events will be conducted in support of these efforts. FY 2015 Plans: - Continue to conduct major decision events in support of OPNAV, the numbered Fleets, Fleet Commanders, and the Combatant Commanders. Projects were in direct support of warfighting analysis requirements for numbered fleet commanders and will expand to include the Commander Seventh Fleet (C7F) with particular focus on India and the Indian Ocean. - Continue to conduct analytical research on key strategic and operational challenges such as maritime ballistic missile defense, proliferation security initiative, global maritime security, maritime situational awareness, maritime operations headquarters, interconnectivity, and multi-service force deployment. - Continue additional evaluation of concepts and decision events in conjunction with war gaming center. - Continue to conduct research targeted at the strategic and policy level decision making within China. - Continue to provide direct support to NWC student research groups and war gaming. - 30-40 major decision events will be conducted in support of these efforts.					
Title: NWC Student Research Projects Articles: Description: 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 2013 Accomplishments: - Conducted focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continued to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command (CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continued in those areas above, and expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level.			0.021 -	0.117 -	0.118 -

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Appropriation/Budget Activity 1319 / 6		R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>		Project (Number/Name) 1767 / <i>Naval War Col Strategic Studies Supt</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
- Conducted research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College. FY 2014 Plans: - Continue to conduct focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continue to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continue in those areas above, and will be expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level. - Continue to Conduct research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College. FY 2015 Plans: - Continue to conduct focused research, analysis and war gaming of current and future strategic/operational challenges and tactical imperatives by the Halsey Groups and Mahan Scholars programs. - Research groups continue to conduct focused research, analysis and free-play war gaming of current and future operational challenges and tactical imperatives arising from regional threats, homeland defense and access denial efforts at the high end of the conflict spectrum in the Pacific, European Command (EUCOM), Central Command (CENTCOM) and Northern Command (NORTHCOM) area of responsibility (AOR). Research and analysis efforts continue in those areas above, and will be expanded to include a detailed focus on counter-targeting, operational deception, and countering information denial and missile defense at the theater joint operational level. - Continue to conduct research for the Deputy Secretary of Defense (DEPSECDEF) on matters tasked to the College.					
Title: Maritime Headquarters / Maritime Operations Center (MOC) Analysis Articles: Description: Formerly JFMCC/Worldwide Naval Component Commanders (WNCC). Naval War College (NWC) conducts research and analysis at the operational level of war, including direct support for the Maritime Headquarters (MHQ) and Maritime Operations Centers (MOC), as well as 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.			- -	0.612 -	0.219 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
FY 2013 Accomplishments: - Continued ongoing research initiated in FY12. - Delayed new Maritime Operations Center research until FY14 due to FY13 funding reductions. FY 2014 Plans: Maritime Staff Operators Course (MSOC): - Expand research into the required competencies for Maritime Staff Operations Course for officer and enlisted personnel to successfully operate at the operational level of war. - Actively participate in creation and review of existing and emerging doctrine, and have active involvement in development of evolving operational level issues. - Incorporate more interactive technologies for staff collaboration while conducting distributed operations. - Conduct research in advanced adaptive intelligence, information warfare, and other advanced decision-support tools, including adapting Spiral-developed systems into the MOC classroom environment. - Conduct research to improve coalition-related MOC education programs for International Officers and senior officers (continued improvements). Includes support for Maritime Advanced Warfighting School (MAWS) and alignment with all other operational level of education at NWC and other Service educational facilities. - Examine gaps in education at the Operational Level of War (OLW); develop Course of Instructions (COI) to close same gaps (Information management/knowledge management, et al). Assist and Assess Team (AAT): - Expand research and analysis into integrating lateral and vertical operations of Commander, TENTH Fleet MOC with operations at existing numbered fleet MOCs, USFFC and US Pacific Fleet, as well as upward to the new USCYBERCOM and downward to subordinate CTFs and commands. - Conduct research and analysis into potential methods for integration of information operations (to include cyber operations) with traditional kinetic joint fires operations. Cyber operations (network attack, defense, and exploitation) present unique challenges due to the global nature of the domain, the potential effects on other MOCs and the importance of alignment for effective strategic communication. - Conduct research into how Navy units worldwide can support the Commander, TENTH Fleet in the execution of the full spectrum of information and cyber operations. - Provide tailored assistance to Commander, TENTH Fleet and Commanders of other MOCs to communicate results of above research and analysis efforts and to strengthen staff knowledge of joint information operations planning, execution, and assessment. Joint/Combined Forces Maritime Commanders Course (J/CFMCC): - Conduct development/research in national and international implications of maritime commander leadership roles, and development of new flag course curriculum accordingly.			

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 1767 / <i>Naval War Col Strategic Studies Supt</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
- Conduct research in the impacts of transition from contract to government employee support for senior mentors with regards to the implementation of CNO's priorities on operational level leadership and flag academics. FY 2015 Plans: Maritime Staff Operators Course (MSOC): - Continue research as noted, including expansion of undersanding of emergent warfare areas in MOC development and education. - Continue research/development on understanding and mitigation of gaps in education at the OLW. - Continue research to develop COI to close same gaps (Information management/knowledge management, et al). Assist and Assess Team (AAT): - Conduct research and analysis into integrating emerging doctrinal issues, thus improving the effectiveness of operations at existing numbered fleet MOCs, USFFC and US Pacific Fleet, as well as upward to the new USCYBERCOM and downward to subordinate CTFs and commands.			
Accomplishments/Planned Programs Subtotals		3.183	5.313
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
This project provides research, analysis and war gaming to meet the needs of the Secretary of the Navy, the Chief of Naval Operations, and Fleet Commanders. Performance is measured in terms of both the quantity and quality of war games, analysis and the extent to which demand for war games and research products can be accommodated within funding levels. Results of research products and war games are evaluated through customer feedback and the extent to which findings are incorporated into follow-on research and practical applications such as Navy doctrine, operational tactics, and programming decisions made during the Planning, Programming, Budgeting & Execution (PPBE) process.			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 2098 / Navy Postgraduate School (NPS) Studies Support			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2098: Navy Postgraduate School (NPS) Studies Support	-	-	14.000	5.000	-	5.000	-	-	-	-	-	19.000
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Navy Postgraduate School (NPS) research and analysis activities serve as a focal point, stimulus, and major source of strategic, tactical and operational thought within the Navy communities. These efforts generate strategic and operational alternatives, tactical imperatives, quantitative analyses, technical developments and assessments, and political-military assessments. Also, 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. Research will be conducted to support graduate students theses determination and completion as part of Faculty projects. These research activities also serve as a means for OPNAV Resource Sponsors and Major Commands to have analysis and decision support research conducted in the uses of the applied, soft, and hard sciences in solving diverse and complex resource allocation and strategic issues facing the Navy today and envisioned in the future.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: Faculty and Student Studies, Analysis and Research										-	14.000	5.000
										Articles: -	-	-
Description: Navy Postgraduate School (NPS) supports senior decision-makers from the Department of the Navy, the Office of the Chief of Naval Operations, Budget Submission Offices and Fleet 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. Student Theses will be an integral part of this program in support of the critical analysis and research conducted by the Faculty.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: - Conduct studies in support of OPNAV N1 - Conduct studies in support of Naval Education and Training Command - Conduct studies in support of Bureau of Naval Personnel - Conduct studies in support of Navy Personnel Command - Conduct studies in support of Navy Recruiting Command - Conduct studies in support of Navy Service Training Command												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2098 / <i>Navy Postgraduate School (NPS) Studies Support</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
- Conduct studies in support of Navy Manpower Analysis Center - Conduct studies in support of OPNAV N2/N6 - Conduct studies in support of OPNAV N3/N5 - Conduct studies in support of OPNAV N4 - Conduct studies in support of OPNAV N9 - Conduct studies in support of US Fleet Forces Command - Conduct studies in support of the Secretary of the Navy <i>FY 2015 Plans:</i> - Conduct studies in support of OPNAV N1 - Conduct studies in support of OPNAV N2/N6 - Conduct studies in support of OPNAV N3/N5 - Conduct studies in support of OPNAV N4 - Conduct studies in support of OPNAV N8 - Conduct studies in support of OPNAV N9 - Conduct studies in support of US Fleet Forces Command - Conduct studies in support of the Secretary of the Navy			
Accomplishments/Planned Programs Subtotals		-	14.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
This Project provides funding to support continuing need for studies and analysis to meet the needs of the Secretary of the Navy, the Chief of Naval Operations, Resource Sponsors, Major Commands and Fleet Commanders. Performance is measured in terms of both the quantity and quality of the studies, research and analysis products that can be accommodated within funding levels. Results of research products 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. This project supports research of both Naval Postgraduate School faculty and students,			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 2221. / JT Mission Assessment Studies			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2221.: JT Mission Assessment Studies	-	10.765	23.012	24.912	-	24.912	22.682	25.123	25.996	26.868	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Navy 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. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense M&S community. It provides Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums.

Beginning in FY 2014, this project also includes funding for Concept Formulation (CONFORM) efforts. This is a shift of funding from PE 0605152N, Studies and Analysis Support, Project 2092, Naval Warfare Studies. CONFORM for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them) towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk.

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2221. / <i>JT Mission Assessment Studies</i>
The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class. This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria. Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews. Capabilities-Based Assessment (CBA) is the Joint Capabilities Integration and Development System (JCIDS) analysis process that includes three phases: Functional Area Analysis (FAA), Functional Needs Analysis (FNA), and Functional Solution Analysis (FSA). The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval warfighting capabilities and force structure needed to support the Joint Requirements Oversight Council (JROC)/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. This analysis includes evaluation of integration and interoperability gaps of current weapons systems. The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect war fighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense M&S community. It provides		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2221. / <i>JT Mission Assessment Studies</i>
Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. Beginning in FY 2014, this project also includes funding for Concept Formulation (CONFORM) efforts. This is a shift of funding from PE 0605152N, Studies and Analysis Support, Project 2092, Naval Warfare Studies. CONFORM for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them) towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk. The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class. This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria. Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews. The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class. This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria. Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews.		

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2221. / <i>JT Mission Assessment Studies</i>
Capabilities-Based Assessment (CBA) is the Joint Capabilities Integration and Development System (JCIDS) analysis process that includes three phases: Functional Area Analysis (FAA), Functional Needs Analysis (FNA), and Functional Solution Analysis (FSA). The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval warfighting capabilities and force structure needed to support the Joint Requirements Oversight Council (JROC)/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. This analysis includes evaluation of integration and interoperability gaps of current weapons systems. Capabilities-Based Assessment (CBA) is the Joint Capabilities Integration and Development System (JCIDS) analysis process that includes three phases: Functional Area Analysis (FAA), Functional Needs Analysis (FNA), and Functional Solution Analysis (FSA). The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval warfighting capabilities and force structure needed to support the Joint Requirements Oversight Council (JROC)/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. This analysis includes evaluation of integration and interoperability gaps of current weapons systems. The Navy Assessment Program provides capability-based planning assessment for Joint Capabilities Integration and Development System (JCIDS), conducts analysis to affect war fighting capability trades and enterprise resources, identifies needs, gaps, and overlaps, and assesses alternative solutions to Joint needs. The program supports both the development and use of modeling, simulation and analytically-based warfare and provides business analyses and analytic tools that provide the basis for decision making with respect to concepts of operations, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Systems (Information Dominance); warfare systems (Sea Strike, Sea Shield, and Sea Basing) and analytical underpinnings/basis for programmatic decisions of the Navy's top leadership regarding their architectures, force structure, and the Navy's core "organize, train, and equip mission" (the warfare and provider Enterprises). The program provides overarching Planning, Programming, Budgeting and Execution System (PPBES) analyses and guidance for PPBES which provides gap analysis and investment strategy and total obligation authority allocation. It provides independent capability analysis and assists in structuring follow-on Navy analyses. The program coordinates Navy's position for the enhanced planning process and conducts net assessments. It serves as the lead campaign analysis to approve Navy warfare and support requirements. The program supports "A Cooperative Strategy for 21st Century Seapower 21" as modified by the Maritime Strategy which charts a course for the Navy, Coast Guard and Marine Corps to work collectively with each other and international partners to prevent crises from occurring or reacting quickly should one occur to avoid negative impact to the United States. It serves as an independent assessor providing a broad-view perspective across the Navy staff apart from resource sponsors, with an integrated look at both war fighting and war fighting support programs. The program supports the world class modeling efforts to attain a level of Modeling and Simulation (M&S) capability that is world class and establishes the Navy as a leader in the Department of Defense M&S community. It provides Navy alternatives in assessing the implications embedded within resource decisions in a quantified context of costs versus capability versus risk. The program provides independent analytic support to Navy leadership in conjunction with various executive level decision forums. Beginning in FY 2014, this project also includes funding for Concept Formulation (CONFORM) efforts. This is a shift of funding from PE 0605152N, Studies and Analysis Support, Project 2092, Naval Warfare Studies. CONFORM for ships, boats and unmanned maritime vehicles must be continuously exercised to remain viable. It takes years to train competent practitioners, and knowledge currency is quickly lost without practice. Evolving threats and technologies drive concepts (and the tools, processes, and skills needed to produce them) towards obsolescence without constant attention. Capability Based Assessments and Analysis of Alternatives (AoA) timelines are insufficient for establishing potential material solution cost versus capability relationships without significant concept formulation work beforehand. Active		

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collaboration between the Office of the Chief of Naval Operations requirement sponsors, Program Offices, and the various System Command (Naval Sea Systems Command, Naval Air Systems Command and Space and Naval Warfare Systems Command) engineers is critical for fully exploring the trade space by conducting analysis for affordability, effectiveness and risk. The majority of Total Ownership Cost (TOC) is locked into a design before it is even a program. In the later stages of a program it becomes much more costly to make changes that will significantly impact TOC. Investment up front in concept design can have a high payoff in TOC reduction over the life of a platform class. This project funds concept development engineering, mission effectiveness analysis, and other analyses for formulation of future surface ship and associated platform force structure along with development of the tools to accomplish these efforts. Advanced platform concept studies and systems technology assessments will be conducted as will the development and upgrade of concept design and engineering tools, methods, and criteria. Outputs include concept costing and performance parameterization for comparative assessment against capability objectives and synthesis to quantify overall (Fleet) capabilities. These products (expressions of cost vs. capability) will serve as the basis of requirements and Joint Capabilities Integration and Development System analysis, define the trade space for AoA efforts, and underpin discussion of force architecture/structure during Quadrennial Defense Review, Long Range Shipbuilding Strategy builds, and Joint Requirements Oversight Council reviews.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Title: Navy Standard Scenarios with Warfare and Warfare Support Analyses		0.702	1.184	1.289
Articles:		-	-	-
FY 2013 Accomplishments:				
-Continued to update and maintain detailed level Navy Standard scenarios based on Defense Planning Guidance (DPG). -Continued to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses. -Continued to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi Service Force Deployment Plans. -Maintained a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data are defined and traceable to government approved/provided source material. -Continued to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in Naval and Joint campaign analyses. -Continued to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses, and provide input to operational situations or tactical situations for use in effectiveness analyses in specific warfare mission areas.				
FY 2014 Plans:				
-Develop and continue to update and maintain detailed level Navy Standard scenarios based on DPG.-Continue to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses. -Develop, update, and maintain analytic baselines for the MCO based on DPG. -Continue to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi-Service Force Deployment Plans.				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
-Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training,development, deployment,retention,etc.) accross the Navy's warfighting platforms(aircraft,ships,submarines,etc.),facilities and personnel development centers. -Develop and continue to maintain a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data were defined and traceable to government approved/provided source material. -Continue to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in naval and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses. -At the mission level, script OPSITS or TACSITS for use in effectiveness analyses in specific warfare mission areas. FY 2015 Plans: -Continue to develop, update and maintain detailed level Navy Standard scenarios based on DPG. -Continue to develop alternative scenarios in support of Defense Review guidance, Joint studies, and Navy resource analyses. -Continue to develop, update, and maintain analytic baselines for the MCO) based on DPG. -Continue to develop details required to execute analysis of designated Defense Planning Scenarios and their respective Multi-Service Force Deployment Plans. -Continue to develop and maintain a framework and common set of processes to ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data were defined and traceable to government approved/provided source material. -Continue to develop scenarios and operational concepts based on government inputs that are sufficiently detailed for use in naval and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriate modeling/methodology to support analyses. -At the mission level, continue to script OPSITS or TACSITS for use in effectiveness analyses in specific warfare mission areas.				
Title: Capability Based Assessments with Campaign Mission Analyses Analytical and Technical Support Articles:		2.105	2.501	2.531
FY 2013 Accomplishments: Performed collaborative assessment with capability sponsors. -Proactively participated in Capability Sponsors' Integrated Process Teams. -Presented opposing analytically-based points of view to the Chief of Naval Operations (CNO) and Navy senior leadership. -Provided analytically-based decision recommendations to CNO for both war fighting and support areas. -Developed CNO investment strategy recommendations and assessments for Program Review and Program Objective Memorandum (POM).		-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
-Assessed capability sponsors' products for senior leadership decision forums. -Conducted Verification, Validation & Accreditation of warfare, performance, and pricing models. -Conducted Overseas Contingency Operation (OCO) Capabilities-Based Assessments (CBAs) that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Conducted Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Conducted independent assessment of Anti-Submarine Warfare. -Conducted weapons safety and sea basing capability assessments. -Conducted Intelligence, Surveillance, and 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 OCO, and intelligence preparation of the environment for both MCOs and OCO. -Performed CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Performed rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the Planning, Programming, Budgeting Execution process. -Performed analyses and provide technical and engineering support, including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conducted analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and responded to transition to war and contingency operations. -Conducted cost analyses, cost-effectiveness analyses, and analyses of new technologies in support of Sponsor Program Proposal, Navy Program Objective Memorandum or Warfare Capability Plan. -Developed innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Provided rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations. -Performed analyses for accreditation of models, use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support. FY 2014 Plans: -Perform collaborative assessment with capability sponsors. -Proactively participate in Capability Sponsors' Integrated Process Teams.			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
-Present opposing analytically-based points of view to the CNO and Navy senior leadership. -Provide analytically-based decision recommendations to CNO for both war fighting and support areas. -Develop CNO investment strategy recommendations and assessments for Program Review and POM. -Assess capability sponsors' products for senior leadership decision forums. -Conduct Verification, Validation & Accreditation of warfare, performance, and pricing models. -Conduct OCO CBAs that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Conduct Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Conduct independent assessment of Anti-Submarine Warfare. -Conduct weapons safety and sea basing capability assessments. -Conduct ISR and METOC assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support MCOs, the OCO, and intelligence preparation of the environment for both MCOs and OCO. -Perform CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Perform rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the Planning, Programming, Budgeting Execution process. -Perform analyses and provide technical and engineering support, including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conduct analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations. -Conduct cost analyses, cost-effectiveness analyses, and analyses of new technologies in support of Sponsor Program Proposal, Navy POM or Warfare Capability Plan. -Develop innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Provide rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations. -Perform analyses for accreditation of models, use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support.			
FY 2015 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
-Continue to perform collaborative assessment with capability sponsors. -Continue to proactively participate in Capability Sponsors' Integrated Process Teams. -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 war fighting and support areas. -Continue to develop CNO investment strategy recommendations and assessments for Program Review and Program Objective Memorandum. -Continue to assess capability sponsors' products for senior leadership decision forums. -Continue to conduct Verification, Validation & Accreditation of warfare, performance, and pricing models. -Continue to conduct OCO CBAs that provide a rapid and scalable process to utilize a Concept of Operation, develop investment strategy, and a capability roadmap. -Continue to conduct Tactical Aircraft Recapitalization alternatives and Theater Ballistic Missile Defense cost capability trade off assessments. -Continue to conduct independent assessment of Anti-Submarine Warfare. -Continue to conduct weapons safety and sea basing capability assessments. -Continue to conduct ISR and METOC assessment to determine the optimal mix of Naval ISR and METOC sensors, platforms, and processing, analysis and fusion disposition to support MCOs, the OCO, and intelligence preparation of the environment for both MCOs and OCO. -Continue to perform CBAs to meet the requirements of current and future scenarios, and make strategic decisions within a constrained economic framework. -Continue to perform rigorous, time critical naval and joint campaign and mission-level analyses, usually based on modeling and simulation that illuminate complex warfare issues which support decision-making in the PPBES process. -Continue to perform analyses including joint campaign analysis that examine the ability to counter a range of coordinate threat capabilities, high level tradeoffs between service capabilities, or impact of large-scale architecture, mission-level effectiveness analyses that determine system capabilities; conduct analyses of alternative force structures that determine the ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations. -Continue to conduct cost-effectiveness analyses and analyses of new technologies in support of Sponsor Program Proposal, Navy Program Objective Memorandum or Warfare Capability Plan. -Continue to develop innovative analysis techniques that evaluate the effectiveness of operations on the Long War focus on Irregular Warfare and Sea Shaping (influence) activities such as Theater Security Cooperation. -Continue to provide rigorous business case assessments of complex issues relating to the war fighting support processes, manpower and personnel, training and education, infrastructure, both afloat and ashore readiness, Naval Medical Program and provider enterprise operations.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
-Continue to use estimate cost and performance of performance-based modeled programs such as the Flying Hour Program, ship operations, ship and aircraft maintenance, spares, facilities, and base operation support.				
Title: Campaign Analysis-Modeling and Simulation		1.707	4.702	4.757
Articles:		-	-	-
FY 2013 Accomplishments: -Maintained common baselines from which campaign excursions and mission-level analyses are executed. -Identified and improved data and modeling. -Lead Navy's participation in the Office of the Secretary of Defense (OSD)/Joint Staff analytic agenda, baseline development, and collection of data. -Provided coordination across the Navy. -Brokered agreements 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. .				
FY 2014 Plans: -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 the OSD/Joint Staff analytic agenda, baseline development, and collection of data. -Provide coordination across the Navy. -Broker agreements upon assumptions, CONOPS, scenarios, and data. -Lead campaign analysis for OPNAV. -Conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements.				
FY 2015 Plans: -Continue to develop and maintain common baselines from which campaign excursions and mission-level analyses are executed. -Continue to identify, develop and improve data and modeling. -Continue to lead Navy's participation in OSD/Joint Staff analytic agenda, baseline development, and collection of data. -Continue to provide coordination across the Navy. -Continue to broker agreements upon assumptions, CONOPS, scenarios, and data. -Continue to lead campaign analysis for OPNAV. -Continue to conduct modeling and simulation support for ongoing OPNAV missile defense analysis requirements.				
Title: OSD/Joint Staff Study Analysis and Assessment with Investment Strategy Development		0.933	1.712	1.733

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
Articles:			-	-	-
<i>FY 2013 Accomplishments:</i> -Coordinated OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Provided overarching PPBES analyses and guidance. -Provided analytically-based decision recommendations to Office of the Chief of Naval Operations (OPNAV) for joint war fighting and support areas. -Conducted net assessments and provided independent analytic support to Navy leadership in conjunction with various executive level decision forums. -Served as the Navy's lead to Joint Requirements Oversight Council, Joint Capabilities Board, and Functional Capabilities Board. -Coordinated Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Developed new analytic techniques for informing resource allocation decisions; conducted all campaign and warfare mission-level analyses and developed investment strategy. -					
<i>FY 2014 Plans:</i> -Coordinate and lead OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Provide overarching PPBES analyses and guidance. -Provide analytically-based decision recommendations to OPNAV for joint war fighting and support areas. -Conduct net assessments and provide independent analytic support to Navy leadership in conjunction with various executive level decision forums. -Serve as the Navy's lead to Joint Requirements Oversight Council, Joint Capabilities Board, and Functional Capabilities Board. -Provide the lead requirements and acquisition for OPNAV. -Coordinate and lead Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Participate in OSD and JS analysis assessment and provided structure for coordination across the Navy. -Coordinate and support Joint Analytical Model Improvement Program. -Develop new analytic techniques for informing resource allocation decisions; conduct all campaign and warfare mission-level analyses and develop investment strategy.					
<i>FY 2015 Plans:</i>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
-Continue to coordinate and lead OSD/Navy's Analytic Agenda in Defense Planning Scenario, Multi-Service Force Deployment, Enhance Planning Process, Strategic Planning Guidance, and participate in Capability Sponsors' Integrated Process Teams. -Continue to provide overarching PPBES analyses and guidance. -Continue to provide analytically-based decision recommendations to OPNAV for joint war fighting 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, Joint Capabilities Board, and Functional Capabilities Board. -Continue to provide the lead requirements and acquisition for OPNAV. -Continue to coordinate and lead Navy's role in Defense Planning Guidance, Program Decision Memoranda, Quadrennial Defense Review, and Defense Science Board studies. -Continue to participate in OSD and JS analysis assessment and provided structure for coordination across the Navy. -Continue to coordinate and support Joint Analytical Model Improvement Program. -Continue to develop new analytic techniques for informing resource allocation decisions; conduct all campaign and warfare mission-level analyses and develop investment strategy.					
Title: World Class Modeling, Simulation, and Capability Analysis			-	6.716	6.791
Articles:			-	-	-
FY 2013 Accomplishments: N/A					
FY 2014 Plans: -Address the one-year backlog of Modeling and Simulation (M&S) efforts due to the lack of FY13 funding. Specifically modeling or analysis gaps that have been corporately deemed critical to improving POM decision-making. -Develop and improve analysis capabilities which support Joint and Navy analytic agendas and resource-allocation decision making by refining the linkages between cost and performance in performance-modeled programs in support of OPNAV analysis and assessment. Areas of tool development and improvement include mission- and campaign-level warfighting models, active and reserve manpower, afloat and ashore readiness, and medical capabilities. -Focus on integrated analysis capabilities that cut across business and program accounts. Specific efforts will address cyber warfare and security, optimizing the training pipeline, integrating ship maintenance and operations price performance models, and improving mission- and campaign-level C5ISR models and representations.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
-Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training, development, deployment, retention, etc.) across the Navy's warfighting platforms (aircraft, ships, submarines, etc.), facilities and personnel development centers. FY 2015 Plans: -Continue to develop and improve the Navy's analysis capabilities which support Joint and Navy analytic agendas and resource-allocation decision making by refining the linkages between cost and performance in performance-modeled programs in support of OPNAV analysis and assessment. Areas of tool development and improvement include mission- and campaign-level warfighting models, active and reserve manpower, afloat and ashore readiness, and medical capabilities. -Continue to focus on integrated analysis capabilities that cut across business and program accounts. Specific efforts will address cyber warfare and security, optimizing the training pipeline, integrating ship maintenance and operations price performance models, and improving mission- and campaign-level C5ISR models and representations. -Develop medical analysis that links to campaign analysis including movement of injured between care facilities, life-saving treatment of injured and recuperation support of injured to support Navy Medical Program decisions. -Update the high-level readiness model that fully integrates all aspects of warfighting support (operational utilization, training cycles, training centers, depots, etc.) and personnel (recruitment, training, development, deployment, retention, etc.) across the Navy's warfighting platforms (aircraft, ships, submarines, etc.), facilities and personnel development centers.					
Title: CONFORM FY 2013 Accomplishments: N/A FY 2014 Plans: - Conduct ship, boat and unmanned marine vehicle concept studies in preparation for Capabilities Based Assessments (CBAs) and Analysis of Alternatives (AoAs). Studies will be performed in a continuous manner to support future recapitalization of Surface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and other emerging program requirements. - Collaborate with Warfare Systems design experts to perform continuous Warfare Systems analysis at the ship and fleet level. Warfare Systems effectiveness assessment tools will be continually developed and enhanced as required to address future concepts and to incorporate improvements in information technology systems. Additionally, collaboration with aircraft, C4ISR, and networks by continuing dialog and collaboration between NAVSEA, NAVAIR, and SPAWAR systems commands will refine fleet level requirements. - Refine platform concept stage cost analysis tools to predict cost better in areas where weight-based algorithms may not be appropriate. It will continually enhance tools to estimate total ownership cost more accurately at the ship and weapons system concept development stage. Conduct cost estimates in support of future concept design exploration, CBA, and AoA efforts.			- Articles: -	3.462 -	3.562 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
Further develop Cost Estimating Relationships (CERs) to accommodate emerging technologies incorporated in future platforms. Develop cost estimating tools which incorporate emerging technologies applicable to future platforms. - Conduct future force structure concept formulation. Fleet synthesis and analysis will be conducted, which includes capabilities requirements, platform design and cost and quantitative tracking of the long-term evolution of the fleet as new platforms are introduced and old ones are retired. Among the areas to be examined are interoperability concepts, force architecture impact studies, Long Range Shipbuilding Schedule (LRSS) support, and operational employment concept studies. -Continue CBA's for off-board data transfer for mine warfare systems, Navy Salvage, adversary aircraft, and underwater breathing apparatus. Commence CBA for surface connector replacement and undergraduate flight training. FY 2015 Plans: -Conduct ship, boat, and unmanned marine vehicle concept studies in preparation for Capabilities Based Assessments (CBAs) and Analysis of Alternatives (AoAs). Studies will be performed in a continuous manner to support future recapitalization of Surface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and other emerging program requirements. -Collaborate with Warfare Systems design experts to perform continuous Warfare Systems analysis at the ship and fleet level. Warfare Systems effectiveness assessment tools will be continually developed and enhanced as required to address future concepts and to incorporate improvements in information technology systems. Additionally, collaboration with aircraft, C4ISR, and networks by continuing dialog and collaboration between NAVSEA, NAVAIR, and SPAWAR systems commands will refine fleet level requirements. -Refine platform concept stage cost analysis tools to predict costs better in areas where weight-based algorithms may not be appropriate. It will continually enhance tools to estimate total ownership costs more accurately at the ship and weapons system concept development stage. Conduct cost estimates in support of future concept design exploration, CBA, and AoA efforts. Further develop Cost Estimating Relationships (CERs) to accommodate emerging technologies incorporated in future platforms. Develop cost estimating tools which incorporate emerging technologies applicable to future platforms. -Conduct future force structure concept formulation. Fleet synthesis and analysis will be conducted, which includes capabilities requirements, platform design and cost and quantitative tracking of the long-term evolution of the fleet as new platforms are introduced and old ones are retired. Among the areas to be examined are interoperability concepts, force architecture impact studies, Long Range Shipbuilding Schedule (LRSS) support, and operational employment concept studies. -Complete CBA's for undergraduate flight training and surface connector replacement, and commence CBA's for candidate systems such as neutralization of sea mines in the near-surface zone and the active RF free-fall expendable decoy. Expand warfighting gap assessments to address interaction of mission area kill chain platforms, sensors, and weapons in a system-of-system construct. Provide analysis support for development of the Integrated Sponsor Program Guidance to Develop the Force Direction.					
Title: Joint Mission Assessment Studies			5.318	2.735	4.249
Articles:			-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Description: CBA - The CBA is the JCIDS analysis process that includes three phases: the FAA, the FNA, and the FSA. The results of the CBA are used to develop a joint capabilities document (based on the FAA and FNA) or initial capabilities document (based on the full analysis). CBA funding provides the resource sponsors the means to develop the analytic underpinning required by Chairman of the Joint Chiefs of Staff Instruction 3170.01G to support the determination of Naval war fighting capabilities and force structure needed to support the JROC/JCIDS requirements validation process and to inform Program Objective Memorandum programming decisions. FY 2013 Accomplishments: Continued FY12 CBA efforts. Provide analysis support for development of the Integrated Sponsor Program supporting Guidance to Develop the Force Direction. FY 2014 Plans: Continue CBA's for off-board data transfer for mine warfare systems, Navy salvage, adversary aircraft, and underwater breathing apparatus. Commence CBA for surface connector replacement and undergraduate flight training. FY 2015 Plans: Complete CBA's for undergraduate flight training and and surface connector replacement, and commence CBA's for candidate systems such as neutralization of sea mines in the near-surface zone and the active RF free-fall expendable decoy. Expand warfighting gap assessments to address interaction of mission area kill chain platforms, sensors, and weapons in a system-of-system construct.			
Accomplishments/Planned Programs Subtotals		10.765	23.012
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A.			
N/A			
N/A			
E. Performance Metrics			
The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. The May 2007 revision of the Joint Chiefs of Staff's Joint Capabilities Integration and Development System (JCIDS) instruction (CJCSI 3170.01F) requires a Capabilities-Based			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2221. / <i>JT Mission Assessment Studies</i>
Assessment (CBA) to assess new requirements. A CBA instruction has been developed by the Chief Navy Office's warfare integration office that prescribes a procedure and structure to this warfighting requirements generation process (JCIDS). A CBA is required to address and validate capability shortfalls or gaps as defined by combatant commanders. It is an analytical process that includes three phases: the Functional Area Analysis, the Functional Needs Analysis, and the Functional Solution Analysis. This process is designed to address future warfighting requirements and analysis needs and improve the quality of Analysis of Alternatives. CBA supports Navy programming decisions and provides the means to develop the analytic underpinning to support the determination of Naval capabilities and force structure recapitalization investments required to fulfill the Maritime Strategy. The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. The May 2007 revision of the Joint Chiefs of Staff's Joint Capabilities Integration and Development System (JCIDS) instruction (CJCSI 3170.01F) requires a Capabilities-Based Assessment (CBA) to assess new requirements. A CBA instruction has been developed by the Chief Navy Office's warfare integration office that prescribes a procedure and structure to this warfighting requirements generation process (JCIDS). A CBA is required to address and validate capability shortfalls or gaps as defined by combatant commanders. It is an analytical process that includes three phases: the Functional Area Analysis, the Functional Needs Analysis, and the Functional Solution Analysis. This process is designed to address future warfighting requirements and analysis needs and improve the quality of Analysis of Alternatives. CBA supports Navy programming decisions and provides the means to develop the analytic underpinning to support the determination of Naval capabilities and force structure recapitalization investments required to fulfill the Maritime Strategy. The May 2007 revision of the Joint Chiefs of Staff's Joint Capabilities Integration and Development System (JCIDS) instruction (CJCSI 3170.01F) requires a Capabilities-Based Assessment (CBA) to assess new requirements. A CBA instruction has been developed by the Chief Navy Office's warfare integration office that prescribes a procedure and structure to this warfighting requirements generation process (JCIDS). A CBA is required to address and validate capability shortfalls or gaps as defined by combatant commanders. It is an analytical process that includes three phases: the Functional Area Analysis, the Functional Needs Analysis, and the Functional Solution Analysis. This process is designed to address future warfighting requirements and analysis needs and improve the quality of Analysis of Alternatives. CBA supports Navy programming decisions and provides the means to develop the analytic underpinning to support the determination of Naval capabilities and force structure recapitalization investments required to fulfill the Maritime Strategy. -The overall goal is to conduct analysis to support the Navy decisions needed to turn strategy and guidance into the Fleet needed within acceptable risk. METRIC: Risks are balanced across capability that delivers the right capabilities within the resources available to Navy. Navy Assessment Program supports the development of platform specific studies and Capability-Based Assessments, an analytical effort resulting in Functional Area Analysis, Functional Needs Analysis, and Functional Solutions Analysis. Efforts provide added analytical rigor relative to program's maturation under the Joint Capabilities, Integration, and Development System and support warfare integration initiatives. -Navy Standard Scenarios with Warfare and Warfare Support Analyses: Goal: To ensure that essential elements of warfare analyses, including scenarios, operational concepts, tactics, capabilities of platforms and systems (for Navy, Joint, coalition and threat forces), key assumptions and input data are defined and traceable to government approved source material. METRIC: Consistency with other ongoing analyses as directed, develop Measures of Performance and Measures of Effectiveness and recommend appropriate modeling/methodology to support analysis. Models/methodology used reflect study objects, level of fidelity required and time constraints.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 2221. / <i>JT Mission Assessment Studies</i>
-Capability Based Assessments with Campaign Mission Analyses Analytical and Technical Support: Goal: To provide analyses and technical and engineering support including, but not limited to, joint campaign analysis that examines the ability to counter a range of coordinated threat capabilities, high level tradeoffs between service capabilities, or impact of largescale architecture, force structure of modernization decision; mission-level effectiveness analyses to determine system capabilities; analyses of alternative force structures to determine ability to meet peacetime deployment or steady-state requirements and respond to transition to war and contingency operations; cost-effectiveness and analyses; Acquisition Category Program Office and Systems Command assessments; and analyses of new technologies. METRIC: Develop analysis plans; determine proposed alternatives for analysis; and research performance data on current and future threats, coalition and own force systems; perform technology investigations and forecasts; develop or obtain cost data for current or planned systems; develop and use Cost Estimating Relationships to determine cost for conceptual or future systems for which no cost data is available; identify analysis assumptions, limitations and uncertainties; use established models or develop new models or methodologies to perform analyses; and interpret and analyze results. -Campaign Analysis-Modeling and Simulation: Goal: Develop and maintain a standard set of models for use in warfare analyses and analyses performed to support Planning Strategy that work at the campaign, mission, and engagement levels. METRIC: A combination of model design statements, model study reports, system specifications, updated model reports, model/database documents, model verification and validation plans, code, and Plan of Action and Milestones reports developed or updated that encompass all aspects of Sea Power 21 to include at a minimum air, land, sea, and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance. -Joint Assessments and Integration and Investment Strategy Development: Goal: Conduct assessments to determine shortfalls and redundancies in existing or planned operational or support capabilities; identify key issues including deficiencies in war fighting capability; determine priorities for needed capabilities; assesses affordability of high payoff systems and technologies; assess effectiveness and affordability of alternative force structures; and formulate investment strategies. Continue development and refinement of Navy program planning to determine the war fighting wholeness and cost effectiveness of alternative Navy strategies. METRIC: Identify shortfalls and redundancies in existing or planned capabilities. Determine the impact of variations in warfare systems and architectures in threat, U.S. and combined forces and strategies. Provide engineering and analytic support for the assessment and transition of technology for use in the Investment Strategy. -World Class Modeling (WCM), Simulation, and Capability Analysis: Goal: Development of new models or model upgrades to meet requirements identified by the WCM requirements		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 2221. / JT Mission Assessment Studies
process that support the Program Objective Memorandum decision-making process, with the goal of creating a state-of-the art set of models for use in warfare and warfare support analyses. METRIC: Develop model design documents, model study reports, system specifications, updated model reports, model documentation, model verification and validation plans, code, Plan of Action and Milestones reports, and technical reports.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014																														
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>				Project (Number/Name) 2801 / <i>Anti-Tamper</i>																															
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																												
2801: <i>Anti-Tamper</i>	-	-	-	1.374	-	1.374	1.374	1.374	1.374	1.374	Continuing	Continuing																												
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-																														
# The FY 2015 OCO Request will be submitted at a later date. Note Realignment from PU 3039 to 2801 starting in FY15. A. Mission Description and Budget Item Justification Perform as the Navy Technical Process Owner for the Anti-Tamper (AT) systems engineering activity that is intended to prevent and/or delay the exploitation of critical technologies in U.S. Systems. Manage the research, design, development, implementation, and testing of AT measures. Coordinate with Department of Defense AT Executive Agent and implement Department of Navy AT policy in conjunction with the Deputy Assistant Secretary Navy. Manage Security and Information Security requirements commensurate with the requirements of ALL Navy Programs throughout their lifecycles. B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) <table border="1"> <thead> <tr> <th></th> <th>FY 2013</th> <th>FY 2014</th> <th>FY 2015</th> </tr> </thead> <tbody> <tr> <td>Title: Anti Tamper</td> <td align="center">-</td> <td align="center">-</td> <td align="center">1.374</td> </tr> <tr> <td align="right">Articles:</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td>FY 2013 Accomplishments: N/A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 2014 Plans: N/A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 2015 Plans: Champion new technology with a focused and disciplined approach of development, assessment, evaluation, and transition to meet Navy program AT requirements. Maintain role in Anti-Tamper policy development for implementation and execution by the SYSCOMs incorporating Navy program AT requirements. Provide secure facilities, networks, computers, video/telephone conference and support personnel for collateral and Special Program operational environments to enable Anti-Tamper implementation and execution by SYSCOM's programs, incorporating AT requirements.</td> <td></td> <td></td> <td></td> </tr> <tr> <td align="right">Accomplishments/Planned Programs Subtotals</td> <td align="center">-</td> <td align="center">-</td> <td align="center">1.374</td> </tr> </tbody> </table> C. Other Program Funding Summary (\$ in Millions) N/A														FY 2013	FY 2014	FY 2015	Title: Anti Tamper	-	-	1.374	Articles:	-	-	-	FY 2013 Accomplishments: N/A				FY 2014 Plans: N/A				FY 2015 Plans: Champion new technology with a focused and disciplined approach of development, assessment, evaluation, and transition to meet Navy program AT requirements. Maintain role in Anti-Tamper policy development for implementation and execution by the SYSCOMs incorporating Navy program AT requirements. Provide secure facilities, networks, computers, video/telephone conference and support personnel for collateral and Special Program operational environments to enable Anti-Tamper implementation and execution by SYSCOM's programs, incorporating AT requirements.				Accomplishments/Planned Programs Subtotals	-	-	1.374
	FY 2013	FY 2014	FY 2015																																					
Title: Anti Tamper	-	-	1.374																																					
Articles:	-	-	-																																					
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Accomplishments/Planned Programs Subtotals	-	-	1.374																																					

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 2801 / Anti-Tamper
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics Manage the research, design, development, implementation and testing of Anti Tamper measures for the Department of the Navy. Manage Information Security for all navy programs throughout their lifecycles.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 3025 / Mid-Range Financial Improvement Plans			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3025: Mid-Range Financial Improvement Plans	-	0.573	0.879	0.717	-	0.717	0.670	0.705	0.717	0.738	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
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. The Office of the Secretary of Defense (OSD) Comptroller, in his 8 August 2003 memorandum, directed the Military Departments and Defense Agencies, in coordination with the Defense Finance and Accounting Service (DFAS), to prepare a comprehensive mid-range financial improvement plan to identify measurable steps to ensure each material line is auditable, and ensure all major deficiencies are resolved.												
This project supports the Research, Development, Test and Evaluation, Navy (RDT&E,N) 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) are being identified.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Mid-Range Financial Improvement Plans Articles: Description: Increase from FY13 to FY14 due to increased effort for audit assertion. FY 2013 Accomplishments: - Continued to participate in the Navy Financial Management Office (FMO) Business Process Standardization (BPS) initiatives. - Continued to participate in the FMO segment testing which includes Reimbursable Work Order (RWO) Grantor, RWO-Performer, transportation of people, CivPay, and Funds Distribution and Reporting for the Navy's assertion of Audit readiness. - Continued eliminating problem disbursements older than 120 days, narrowing to 60 days, and potentially narrowing even further. - Continued performing obligation validations ensuring accuracy. FY 2014 Plans: - Continue all efforts of FY13. FY 2015 Plans: - Continue all efforts of FY14.									0.573	0.879	0.717	
									-	-	-	
Accomplishments/Planned Programs Subtotals									0.573	0.879	0.717	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 3025 / Mid-Range Financial Improvement Plans
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics Financial records are compliant in accordance with the Chief Financial Officers Act.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 3039 / CHENG			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3039: CHENG	-	12.542	18.631	13.241	-	13.241	13.937	14.296	14.605	14.970	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note Realignment from project 3039 to 2801 starting in FY15.												
A. Mission Description and Budget Item Justification Develops and implements 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 Navy 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 war fighting capability at the FoS/SoS level and supports consistent engineering and investment decision-making across Navy and Marine Corps programs within capability-based acquisition portfolios. Naval Collaborative Engineering Environment development and implementation as a DON enterprise resource for Naval integration and interoperability information to enable collaboration and decision support among Fleet organizations, Program Executive Offices, Program Managers, Systems Commands, prime contractors, Resource/Warfare Sponsors and Comptroller organizations. Standards, Policies and Guidelines engineering and technical staff to implement DoN, Office of the Secretary of Defense (OSD) and Joint integration and interoperability initiatives.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Standards, Policy, and Guidelines Articles: Description: Standards, Policy and Guidelines conducts and provides policy analysis, and studies, Policy issue identification and resolution. Additionally, management and execution of the Information Support Plan (ISP) process for the DON. Assists program offices with ISP planning & development guidance and assistance, conducts ISP reviews; provides comments/recommendations. Liaison with DoD, Joint Staff, and Other Service acquisition/Systems Engineering FY 2013 Accomplishments: - Assisted 2 Program Offices (PMO's) with Net Ready Key Performance Parameters (NR KPP) Development - Provided policy analyses and assessment to the Joint Mission Threat Development and Documentation Process Guide, NAVSEAINST 4121.3B (joint SYSCOM instruction: Naval SYSCOM Technical Standards Policy); DoDI 5000.02 revision; final review of DODI 8330.aa (Interoperability of Information Technology)									3.253	4.982	3.984	
									-	-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 3039 / CHENG		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
- Supported 11 Program Offices with ISP planning and development assistance - Reviewed 2 USN and 23 DoD/Other Service ISPs with an additional 8 ISP reviews in process FY 2014 Plans: - Continue policy analysis, studies and guidance to include issue identification and resolution - Continue Program Office ISP planning and development support - Continue ISP Reviews FY 2015 Plans: -Continuation of FY14 efforts and initiatives				
Title: Naval System Engineering Resource Center (NSERC) Articles: Description: Development and implementation of the Navy Enterprise Architecture Repository (NEAR) 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. FY 2013 Accomplishments: - Deliverered Phase I of NEAR - Developed architecture design training using NSERC to support systems engineering architecture development process - Supported Naval Enterprise Capabilities by translating operational requirements to system performance requirements using architecture tools in the SE process in compliance with DoDAF 2.0; the NR KPP CJCSI 6212.01F and JCIDS directive 3170.01E - Provided common approach to standardize the methods, tools and ability to develop accurate and cost effective DoDAF architecture products for capability assessment and design of Weapon systems FY 2014 Plans: - Continue Phased Delivery (Phase II) of NEAR FY 2015 Plans: - Continue Phased Delivery (Phase III) of NEAR		1.909 -	2.805 -	2.213 -
Title: Systems Engineering Articles:		7.380 -	10.844 -	7.044 -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 3039 / CHENG	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Description: Provide the framework for making engineering decisions by war fighting capability at the Family of Systems/System of Systems level and supports consistent engineering and investment decision making across Navy and Marine Corps programs within-capability based acquisition portfolio FY 2013 Accomplishments: - Incorporated MLA&E process into the System of Systems (SoS) Guidebook - Completed the Knowledge, Skills and Abilities (KSA) listing for the SE Human Resources Competency Model - Delivered the Navy's Systems Engineering Health Assessment (Annual Requirement) to DoD. - Revised the Systems Engineering Technical Review (SETR)/Gate Review I&I Criteria - Provided Program Office assistance with Systems Engineering Plan (SEP) reviews. Completed the review of 5 Program Office SEP's. - Initiated the Reserve Component Corrosion Prevention and Control Initiative. - Held 3 Anti-Tamper (AT) planning Summits with the other services and industry to help shape AT policy to protect defense technology development and acquisition. FY 2014 Plans: - Complete and Deliver the Systems Engineering Human Resource Competency Model - Continue Corrosion Prevention and Control initiatives - Continue Anti-Tamper policy development for implementation and execution by the SYSCOMs - Continue I&I initiatives - Continue Program Office SEP review and support FY 2015 Plans: - Continue Corrosion Prevention and Control initiatives - Continue Anti-Tamper policy development for implementation and execution by the SYSCOMs - Complete and transition I&I initiatives to OPNAV/Fleet components - Continue Program Office SEP review and support			
Accomplishments/Planned Programs Subtotals		12.542	18.631
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 3039 / <i>CHENG</i>
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> Standards, Policy, and Guidelines: - Alignment of SPGs across the Naval Enterprise and with OSD and Joint organizations will support standard acquisition implementation and improve compatibility and interoperability thereby lowering development and maintenance costs across programs - Aggregating systems for the purpose of conducting certification and accreditation and consolidating mandatory documentation for aggregations versus individual systems will optimize (cost tradeoffs and focus on high priority issues) certifications, reduce paperwork and associated costs, and put attention on systems engineering, IA, and ISPs for systems in their aggregated operational state vice just the individual system development state. Document costs for major programs are \$1 to \$3.5 Million per system. An aggregation may include 15 or more systems with four or more being major systems. Aggregation presents a high potential for Return on Investment. - NR-KPP processes will clarify requirements and capabilities (including their metrics) that acquisition programs need to develop systems. This clarification will eliminate guesses in terms of operational needs, thereby reducing the risk of program failure and reducing program and life-cycle costs. Naval Collaborative Engineering Environment (NCEE): Number of customers/ users. Percentage of time the tool is available. Number of tools integrated into the system. Systems Engineering: Reviews and comment on all ACAT I system engineering plans presented to ASN (RDA) within 30 days of receipt to provide system engineering and system of system system engineering guidance to the Acquisition Program Manager. Review 80% of the MDAP Gate reviews held in FY10 to provide software acquisition process improvement guidance, system of systems engineering guidance and integration and interoperability management guidance to the Acquisition Program Managers.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 3330 / Naval Research Laboratory (NRL) Facilities Modernization			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3330: Naval Research Laboratory (NRL) Facilities Modernization	-	2.191	2.393	1.611	-	1.611	15.214	15.617	15.896	16.205	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
This program has been established to provide a systematic and planned approach to improve vital in-house science and technology (S&T) laboratory facilities which are reaching or have reached critical stages of deterioration. The program includes restoration and modernization (R&M) initiatives for about 350,000 net square feet, where the average age of the buildings is 67 years old.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: NRL Facilities Modernization										2.191	2.393	1.611
										Articles:		
Description: Critical Science and Technology research cannot be sustained or succeed in deteriorated facilities. World class research can only be accomplished in facilities that are at a minimum "adequate", but preferably "state-of-the-art." Due to their advanced age and deterioration, funds are planned to restore/modernize various laboratory facilities at the Naval Research Laboratory. FY15 funding decrease is due to programmatic realignments to other Navy priorities. FY 2013 Accomplishments: - Continued the modernization efforts for the electronics science and technology laboratories, equipment, and specialized facilities. FY 2014 Plans: - Continue all efforts of FY13. FY 2015 Plans: - Continue all efforts of FY14.												
Accomplishments/Planned Programs Subtotals										2.191	2.393	1.611

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 3330 / Naval Research Laboratory (NRL) Facilities Modernization
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy None		
E. Performance Metrics Restoration and modernization of the laboratory facilities will begin in a phased approach until completion.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>				Project (Number/Name) 3363 / <i>PACOM Initiative</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3363: <i>PACOM Initiative</i>	-	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note This funding is for a classified effort.												
A. Mission Description and Budget Item Justification This funding is for a classified effort.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: PACOM Initiative										-	7.950	7.945
Articles:										-	-	-
FY 2013 Accomplishments: N/A												
FY 2014 Plans: This is a classified initiative.												
FY 2015 Plans: This is a classified initiative.												
Accomplishments/Planned Programs Subtotals										-	7.950	7.945
C. Other Program Funding Summary (\$ in Millions) N/A												
Remarks												
D. Acquisition Strategy This funding is for a classified effort.												
E. Performance Metrics This funding is for a classified effort.												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 3381 / JIE Initiative			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3381: JIE Initiative	-	-	-	8.900	-	8.900	-	-	-	-	-	8.900
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: Strategies for Defense of Data										-	-	8.900
										Articles:		
Description: The Joint Information Environment (JIE) initiative provides the supporting IT capability framework comprised of shared information technology infrastructure, enterprise services, interoperability with coalition partners and a single security architecture that enables mission commanders to execute mission partnered operations. JIE provides the U.S. configuration controls necessary for enterprise capabilities. By utilizing a U.S enterprise-wide secure Identity and Access Management system, JIE ensures that authorized users at the right classification level gain access to only the data and services they are entitled. The continued development and refinement of a Joint Information Environment will provide for a significant improvement in data sharing within, and between, coalition maritime elements.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: N/A												
FY 2015 Plans: Develop and integrate analytic methodologies and supporting elements that address cyber capabilities, innovations, and strategic engagements in order to produce a strategy for a more defensible and secure cyber architecture specifically designed for U.S. Pacific Command, joint, and coalition mission partners.												
Accomplishments/Planned Programs Subtotals										-	-	8.900

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 3381 / <i>JIE Initiative</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Utilize an existing Army contract to develop capabilities to identify and provide risk management for critical infrastructure system vulnerabilities as a result of cyber based attacks in the U.S. Pacific Command area of responsibility. This information is for presentation to the Office of the Under Secretary of Defense for Intelligence (OUSD(I)).		
E. Performance Metrics Develop scenario based, interactive exercise simulations to supplement existing table top, command post, and full scale incident response training and exercise programs. The completion date for the strategy and cyber architecture recommendations is September 2015.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt				Project (Number/Name) 9999 / Congressional Adds			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9999: Congressional Adds	-	12.457	7.000	-	-	-	-	-	-	-	-	19.457
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Funds execution of DoD's Executive Agent (EA) for Printed Circuit Board (PrCB) Technologies as established by the 2009 National Defense Authorization Act (Section 256, PL 110-417). The primary deliverable from this effort will be a PrCB and Interconnect Technology Roadmap, or strategic plan, identifying domestic technology gaps, future research and development needs, and any policy changes required to ensure that the DoD has access to PrCB manufacturing capabilities and technical expertise necessary to meet future military requirements. As mandated, the EA will also address DoD PrCB supply chain issues, including diversity and vulnerabilities, and develop trustworthiness requirements for PrCBs used in defense systems.												
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2013	FY 2014			
Congressional Add: Printed Circuit Board Executive Agent								12.457	7.000			
FY 2013 Accomplishments: - Complete formalization of the Executive Agent role in accordance with DoD 5101.1												
- Establish PrCB EA Advisory Council (DoD, industry, and academia)												
- Identify other roles and responsibilities associated with the PrCB Technology program (per SECDEF Directive)												
- Establish framework for Strategic Systems Program demonstration of PRCB initiatives resulting from EA mandates												
- Initiate domestic technology gap analysis & identification of future R&D needs												
- Initiate assessment of vulnerabilities, trustworthiness, and diversity of the PRCB supply chain												
- Initiate joint common strategic weapons systems study/research and development to demonstrate "trusted" PRCB principles												
- Initiate establishment of strategic electronic parts commonality framework and strategic parts library to reduce program risk and costs												
- Initiate development of PRCB and interconnect technology roadmap/strategic plan												
FY 2014 Plans: - Complete domestic technology gap analysis & identification of future R&D needs												
- Complete assessment of vulnerabilities, trustworthiness, and diversity of the PrCB supply chain												
- Complete joint common strategic weapons systems study/research and development to demonstrate "trusted" PrCB principles and implement proven "trust" measures												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / <i>Management, Technical & Intl Supt</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
B. Accomplishments/Planned Programs (\$ in Millions)		
- Complete establishment of strategic electronic parts commonality framework and strategic parts library to reduce program risk and costs	FY 2013	FY 2014
- Complete development of PRCB and interconnect technology roadmap/strategic plan		
Congressional Adds Subtotals	12.457	7.000
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics In 2005, the National Academies national research council (NRC) conducted a study and subsequently issued a report relating to manufacturing trends in printed circuit technology. Within that report, the NRC detailed four critical issue areas that needed to be addressed in the interest of national security. Those issue areas included; Trust, Supply Chain, Organic (DoD) Capability Sustainment, and Technology Development. Intense global competition in the Printed Circuit Board (PrCB) industry has resulted in a significant reduction in the number of United States PrCB companies, leaving the domestic PrCB industrial base "fragile" and progressively declining in capability and health. Implementation of the strategies developed by the EA for PrCB Technologies will proactively ensure that the U.S. PrCB industry is capable of supporting future DoD electronics requirements. The strategic plan is expected to identify technology gaps and research and development needs, as well as identify and recommend policy changes. In addition to benefiting DoD by ensuring access to leading edge PrCB technology, it is expected that the EA program will help the struggling domestic PrCB industry by identifying future technology research and development needs and securing the domestic military market.		