Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E

PE 0605853N I Management, Technical & Intl Supt

Date: March 2014

Management Support

Appropriation/Budget Activity

					=>/.00/=							
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: International Coop RDT&E	0.000	2.924	4.316	3.608	-	3.608	3.325	3.417	3.493	3.538	Continuing	Continuing
1767: Naval War Col Strategic Studies Supt	0.000	3.183	5.313	4.762	-	4.762	4.422	4.496	4.609	4.719	Continuing	Continuing
2098: Navy Postgraduate School (NPS) Studies Support	0.000	-	14.000	5.000	-	5.000	-	-	-	-	-	19.000
2221.: JT Mission Assessment Studies	0.000	10.765	23.012	24.912	-	24.912	22.682	25.123	25.996	26.868	Continuing	Continuing
2801: Anti-Tamper	0.000	-	-	1.374	-	1.374	1.374	1.374	1.374	1.374	Continuing	Continuing
3025: Mid-Range Financial Improvement Plans	0.000	0.573	0.879	0.717	-	0.717	0.670	0.705	0.717	0.738	Continuing	Continuing
3039: CHENG	0.000	12.542	18.631	13.241	-	13.241	13.937	14.296	14.605	14.970	Continuing	Continuing
3330: Naval Research Laboratory (NRL) Facilities Modernization	0.000	2.191	2.393	1.611	-	1.611	15.214	15.617	15.896	16.205	Continuing	Continuing
3363: PACOM Initiative	0.000	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing
3381: JIE Initiiative	0.000	-	-	8.900	-	8.900	-	-	-	-	-	8.900
9999: Congressional Adds	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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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support

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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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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support

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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 inhouse 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 2014
7.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	D	ate: March 2014	
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt		
Congressional Add Details (\$ in Millions, and Includes General I	Reductions)	FY 2013	FY 2014
	Congressional Add Subtotals for Project: 999	12.457	7.000
	Congressional Add Totals for all Projec	ts 12.457	7.000

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Exhibit R-2A, RDT&E Project Ju-	stification	: PB 2015 N	lavy							Date: Marc	ch 2014	
Appropriation/Budget Activity 1319 / 6					_	am Elemen 53N / Manag	•			roject (Number/Name) 149 / 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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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Da	te: March 2014			
Appropriation/Budget Activity 1319 / 6	n/Budget Activity R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt					
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)	FY 20	3 FY 2014	FY 2015		
FY 2013 Accomplishments: - Continued to support Maritime Theater Missile Defense (MTMD) For contributions. The multi-lateral forum (9 Maritime Partner countries (Battle Management Command, Control, Communications, Compute Open Architecture; and Modeling and Simulation (M&S). The MTME -Continued execution of approximately 300 Information Exchange Athan 30 countries. - Continued execution and support in placement of US Navy and parand Scientist Exchange Program (ESEP). - Continue to coordinate US Navy participation in OUSD(AT&L) Fore (CWP) selection processes to meet emerging military capability requirements are including Multi-Mission Aircraft (MMA), Broad Area System, and Swimmer Engagement. Coordinated US Navy Supporting-Supported new CNO-Initiated Strategy Dialogue with Australia, inclumutual development of requirements and projects. Supported NATO on cooperative programs including harbor protection, electronic ward-Continued execution of Expenditionary Warfare Working Group (EV-Execution of Above Water Working Group(AWWG). -Execution of Ommnication and Information Warfare Working Group (EV-Execution of Commnication and Information Warfare Working Group (EV-Execution of Pre-International Agreement Work. -Continued execution and support of NATO Maritime EW Trials/NAT-Execution of Army Contract SME TRI MAG Table Top Exercise.	adn the US Navy) entered into four international agreemers and Intelligence (BMC4I); Distributed Engineering PID has a goal of an at-sea capability demonstration in 20 greements/Date Exchange Agreements (IEA/DEA) with internation engineers and scientists under OSD's Enging Comparative Test (FCT) and coalition Warfare Proguirements. Bects contribution to Maritime Domain Awareness (MDA) Maritime Surveillance (BAMS), Submarine Littoral Weals to OUSD (AT&L) International Cooperation Office. Budding Air and Expenditionary Warfare Working Groups for Naval Armaments Group (NNAG) and Five Power Groups, and Defense Against Terrorism (DAT) trials. By (CIWWG).	nents ant; 15. more eer ram and pons				
FY 2014 Plans: - Continue all efforts of FY13; - Continue to support Maritime Theater Missile Defense (MTMD) For contributions. The multi-lateral forum (9 Maritime Partner countries (Battle Management Command, Control, Communications, Compute Open Architecture; and Modeling and Simulation (M&S). The MTMD	adn the US Navy) entered into four international agreemers and Intelligence (BMC4I); Distributed Engineering Pl	nents ant;				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	1arch 2014	
Appropriation/Budget Activity 1319 / 6	•	(Number/l nternationa	/Name) al Coop RDT&E		
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2013	FY 2014	FY 2015
-Continue execution of approximately 300 Information Exchange of than 30 countries. -Continue execution and support in placement of US Navy and passion Scientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) For (CWP) selection processes to meet emerging military capability refund various evolving potential cooperative exchanges and projective regular warfare including Multi-Mission Aircraft (MMA), Broad Ar System, and Swimmer Engagement. Coordinate US Navy Support-Support new CNO-Initiated Strategy Dialogue with Australia, inclimutual development of requirements and projects. Support NATO cooperative programs including harbor protection, electronic warfare-Continue execution of Expenditionary Warfare Working Group (Execution of Assured Precision Strike (APS) Study. -Execution of Above Water Working Group(AWWG). -Execution of Undersea Warfare Working Group (UWWG). -Execution of Commnication and Information Warfare Working Greater Execution of Amphibious Operations Working Group (AOWG) -Execution of Pre-International Agreement Work. -Continue execution and support of NATO Maritime EW Trials/NATO	artner nation engineers and scientists under OSD's Engineer preign Comparative Test (FCT) and coalition Warfare Progracy equirements. Sects contribution to Maritime Domain Awareness (MDA) and sea Maritime Surveillance (BAMS), Submarine Littoral Weap port to OUSD (AT&L) International Cooperation Office. Sudding Air and Expenditionary Warfare Working Groups for D Naval Armaments Group (NNAG) and Five Power Groups are, and Defense Against Terrorism (DAT) trials. SWWG).	am l pons			
-Continue all efforts of FY14. - Continue to support Maritime Theater Missile Defense (MTMD) I contributions. The multi-lateral forum (9 Maritime Partner countrie (Battle Management Command, Control, Communications, Comp Open Architecture; and Modeling and Simulation (M&S). The MT-Continue execution of approximately 300 Information Exchange than 30 countries. -Continue execution and support in placement of US Navy and pascientist Exchange Program (ESEP). -Continue to coordinate US Navy participation in OUSD(AT&L) For (CWP) selection processes to meet emerging military capability research.	es adn the US Navy) entered into four international agreeme uters and Intelligence (BMC4I); Distributed Engineering Pla MD has a goal of an at-sea capability demonstration in 201 Agreements/Date Exchange Agreements (IEA/DEA) with months artner nation engineers and scientists under OSD's Engineer or eign Comparative Test (FCT) and coalition Warfare Programments	ents int; 5. ore er and			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
-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 Expenditionary 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 Expenditionary 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.			
-Continue execution and support of NATO Maritime EW Trials/NATO Travel.			
Accomplishments/Planned Programs Subtotals	2.924	4.316	3.608

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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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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Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2015 N	lavy							Date: Marc	ch 2014		
Appropriation/Budget Activity 1319 / 6					_	am Elemen 53N <i>I Mana</i> g	•	•	, ,	t (Number/Name) Naval War Col Strategic 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	
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.

B Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Fach)

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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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	larch 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 Stu						Studies Supt
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua		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 concepts for future Navy and maritime operations. Follow up on CNO XXXI Final Report. Continue research into the Chinese Maritime capabilities and affairs developments and provide studies and advice for the CNO and the fle Conduct research in support of the refresh to the Navy's Strategy "C 	and OPNAV actions resulting from SSG in order to enhance understanding of global eet.							
FY 2015 Plans: - Continue research and analysis projects and provide supporting eve 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 generat concepts for future Navy and maritime operations. Follow up on CNO XXXII Final Report. - Continue research into the Chinese Maritime capabilities and affairs developments and provide studies and advice for the CNO and the fle	te revolutionary operating and warfighting and OPNAV actions resulting from SSG in order to enhance understanding of global							
Title: Naval War Gaming Support	Ar	ticles:	1.593	2.721	2.528			
Description: Naval War College (NWC) conducts strategic and operational Operations (OPNAV), the numbered Fleets, Fleet Commanders major war games and associated events provide support to efforts the economic aspects of differing strategic and operational scenarios and	ational war gaming and research for Office of the Chief s, and the Combatant Commanders. Each year, 55-60 at explore and analyze military, political, informational a	of						
FY 2013 Accomplishments: - Conducted over 40-45 major war games and related events in support the Combatant Commands Continued support for CNO and OPNAV with Navy Title X war game gaming expertise to other services' Title 10 war games Continued to provide research, analysis, and war gaming support to as MDA, Irregular Warfare, cyber, and C4ISR - Continued to foster and sustain cooperative relationships with internatesearch, and analysis Continued to conduct research supporting war games co-sponsored	es, research, and analysis. Continued to provide war senior Navy leadership in areas as directed, such ational partners through the use of war gaming,							

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: I	March 2014	
Appropriation/Budget Activity 1319 / 6				Studies Sup
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each)	FY 2013	FY 2014	FY 2015
(NWDC) and US Joint Forces Command. - Continued to conduct analytic research on maritime security coope - Supported Fleet Commanders and advance concepts in war fightin protection. - Continued to conduct advanced research and analysis for OPNAV implementation of Cooperative Strategy for 21st Century Seapower. - Continued to conduct high level policy analytic research and gamin for the Office of the Secretary of Defense (OSD). - Continued war gaming, research and analytical support for Navy consecurity, and sea control. - Continued International War Gaming in support of Maritime Securit Strategy for 21st Century Seapower. - Continued to conduct research and analysis on key operational characteristics.	ration planning for forward based fleets. Ig areas of interest, such as critical infrastructure on determining measures of effectiveness for the Ig addressing Proliferation Security Initiatives ore capabilities, such as deterrence, maritime y Cooperation and implementation of Cooperative allenges such as theater anti-submarine Warfare,			
FY 2014 Plans: - Continue to conduct 55-60 major war games and related events in Combatant Commands. - Continue to support CNO and OPNAV with Navy Title X war games gaming expertise to other services' Title 10 war games. - Continue to provide research, analysis, and war gaming support to as MDA, Irregular Warfare, cyber, and C4ISR. - Continue to foster and sustain cooperative relationships with internesearch, and analysis. - Continue to conduct research supporting war games co-sponsored. - Continue to conduct advanced research and analysis for OPNAV of implementation of Cooperative Strategy for 21st Century Seapower. - Continue to conduct high level policy analytic research and gaming for the Office of the Secretary of Defense (OSD). - Continue war gaming, research and analytical support for Navy corescurity, and sea control. - Continue International War Gaming in support of Maritime Security Strategy for 21st Century Seapower.	s, research, and analysis. Continue to provide war senior Navy leadership in areas as directed, such ational partners through the use of war gaming, with Naval Warfare Development Command (NWDC). In determining measures of effectiveness for the addressing Proliferation Security Initiatives are capabilities, such as deterrence, maritime			

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	Date: N	March 2014	
R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt			
Quantities in Each)	FY 2013	FY 2014	FY 2015
and defense, maritime domain awareness, and sea			
in support of OPNAV, the numbered Fleets, and the es, research, and analysis. Continue to provide war to senior Navy leadership in areas as directed, such mational partners through the use of war gaming, d with Naval Warfare Development Command (NWDC). war fighting areas of interest, such as critical on determining measures of effectiveness for the r. g addressing Proliferation Security Initiatives for one capabilities, such as deterrence, maritime ced Warfighting School. allenges such as theater ASW, IAMD, global maritime ea denial and anti access issues confronting naval			
	PE 0605853N / Management, Technical &	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intil Supt Quantities in Each) allenges such as theater anti-submarine Warfare, and defense, maritime domain awareness, and sea atting School. In support of OPNAV, the numbered Fleets, and the es, research, and analysis. Continue to provide war senior Navy leadership in areas as directed, such mational partners through the use of war gaming, and with Naval Warfare Development Command (NWDC). war fighting areas of interest, such as critical on determining measures of effectiveness for the fr. and analysis of the graddressing Proliferation Security Initiatives for one capabilities, such as deterrence, maritime and denial and anti access issues confronting naval	PE 0605853N / Management, Technical & 1767 / Naval War Col Strategic Intl Supt Quantities in Each FY 2013 FY 2014

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: M	larch 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt		roject (N <mark>umber/Name)</mark> '67 / Naval War Col Strategic Studie		
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	<u>Quantities in Each)</u>		FY 2013	FY 2014	FY 2015
 Support Fleet Commanders and advance concepts in war fighting protection and counter piracy. Support Fleet Commanders with high quality Course of Action Ana Provide direct support to Navy operational level programs such as Leaders Operational Course, CFMCC Course, and JFMCC Course. Develop advanced war gaming analytical methods and tools such based applications. 	alysis and war games of operational plans. the maritime staff Operators Course, Executive				
Title: Warfare Analysis and Research		rticles:	0.236	0.380	0.42
Description: Naval War College (NWC) supports senior decision-m Navy, the numbered Fleets, Fleet Commanders and Combatant Co strategic, operational and programmatic issues through collaborativ with advanced decision support tools.	mmanders in reaching well-informed, objective decisions	on			
FY 2013 Accomplishments: - Conducted major decision events in support of Office of the Chief numbered Fleets, Fleet Commanders, and the Combatant Comman analysis requirements for numbered fleet commanders and were exparticular focus on India and the Indian Ocean. - Conducted analytical research on key strategic and operational chaproliferation security initiative, global maritime security, maritime situ headquarters, interconnectivity, and multi-service force deployment. - Continued additional evaluation of concepts and decision events in Conducted research targeted at the strategic and policy level decision. - Provided direct support to NWC student research groups and war 20-30 major decisions were conducted in support of these efforts.	nders. Projects were in direct support of warfighting spanded to include Commander Seventh Fleet (C7F) with nallenges such as maritime ballistic missile defense, uational awareness, maritime operations on conjunction with war gaming center.	1			
FY 2014 Plans: - Continue to conduct major decision events in support of OPNAV, to Combatant Commanders. Projects are in direct support of warfightis commanders and will expand to include the Commander Seventh Foundation Ocean. - Continue to conduct analytical research on key strategic and operations defense, proliferation security initiative, global maritime security.	ing analysis requirements for numbered fleet leet (C7F) with particular focus on India and the ational challenges such as maritime ballistic				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	larch 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 1767 I Naval War Col Strategic Studi			Studies Sup
B. Accomplishments/Planned Programs (\$ in Millions, Article C	Quantities in Each)		FY 2013	FY 2014	FY 2015
maritime operations headquarters, interconnectivity, and multi-servi - Continue additional evaluation of concepts and decision events in - Continue to conduct research targeted at the strategic and policy I - Continue to provide direct support to NWC student research group - 25-30 major decision events will be conducted in support of these	conjunction with war gaming center. level decision making within China. os and war gaming.				
FY 2015 Plans: - Continue to conduct major decision events in support of OPNAV, to Combatant Commanders. Projects were in direct support of warfigl commanders and will expand to include the Commander Seventh Findian Ocean. - Continue to conduct analytical research on key strategic and oper missile defense, proliferation security initiative, global maritime secundaritime operations headquarters, interconnectivity, and multi-service. Continue additional evaluation of concepts and decision events in Continue to conduct research targeted at the strategic and policy Continue to provide direct support to NWC student research group - 30-40 major decision events will be conducted in support of these	hting analysis requirements for numbered fleet Fleet (C7F) with particular focus on India and the rational challenges such as maritime ballistic urity, maritime situational awareness, ice force deployment. conjunction with war gaming center. level decision making within China. os and war gaming.				
Title: NWC Student Research Projects	Aı	ticles:	0.021	0.117	0.118
Description: Selected top performing Naval War College (NWC) st and future strategic and operational challenges and tactical imperat the Mahan Scholars Program and the Halsey Group Program.	tudents to conduct focused research and analysis of curr	ent			
FY 2013 Accomplishments: - Conducted focused research, analysis and war gaming of current tactical imperatives by the Halsey Groups and Mahan Scholars progrational challenges and tactical imperatives arising from regional efforts at the high end of the conflict spectrum in the Pacific, Europe (CENTCOM) and Northern Command (NORTHCOM) area of responsefforts continued in those areas above, and expanded to include a operational deception, and countering information denial and missil operational level.	grams. s and free-play war gaming of current and future al threats, homeland defense and access denial ean Command (EUCOM), Central Command onsibility (AOR). Research and analysis detailed focus on counter-targeting,				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Da	te: Ma	arch 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 1767 I Naval War Col Strategic Stu			Studies Sup
B. Accomplishments/Planned Programs (\$ in Millions, Article Quant	FY 20	13	FY 2014	FY 2015	
- Conducted research for the Deputy Secretary of Defense (DEPSECDE	F) on matters tasked to the College.				
FY 2014 Plans: - Continue to conduct focused research, analysis and war gaming of currand tactical imperatives by the Halsey Groups and Mahan Scholars progenesearch groups continue to conduct focused research, analysis and froperational challenges and tactical imperatives arising from regional threefforts at the high end of the conflict spectrum in the Pacific, European C CENTCOM) and Northern Command (NORTHCOM) area of responsibiliting those areas above, and will be expanded to include a detailed focus of deception, and countering information denial and missile defense at the tecture of Conduct research for the Deputy Secretary of Defense (DE)	ree-play war gaming of current and future eats, homeland defense and access denial command (EUCOM), Central Command ty (AOR). Research and analysis efforts continue in counter-targeting, operational theater joint operational level.				
FY 2015 Plans: - Continue to conduct focused research, analysis and war gaming of currand tactical imperatives by the Halsey Groups and Mahan Scholars prog-Research groups continue to conduct focused research, analysis and froperational challenges and tactical imperatives arising from regional threefforts at the high end of the conflict spectrum in the Pacific, European C (CENTCOM) and Northern Command (NORTHCOM) area of responsibilicontinue in those areas above, and will be expanded to include a detailed operational deception, and countering information denial and missile defeoperational level. - Continue to conduct research for the Deputy Secretary of Defense (DEI	rent and future strategic/operational challenges frams. ree-play war gaming of current and future eats, homeland defense and access denial command (EUCOM), Central Command ity (AOR). Research and analysis efforts d focus on counter-targeting, ense at the theater joint				
Title: Maritime Headquarters / Maritime Operations Center (MOC) Analyst	•		-	0.612	0.21
	Ai	ticles:	-	-	-
Description: Formerly JFMCC/Worldwide Naval Component Commander research and analysis at the operational level of war, including direct sup Operations Centers (MOC), as well as Combined/Joint Forces Maritime (activities include support for concept and doctrine development of number and analysis. NWC is responsible for development of Professional Milita Numbered Fleet Staff personnel, and the Numbered Fleet Commander, it concept of operations development, training and C/JFMCC advisory and	oport for the Maritime Headquarters (MHQ) and Mar Component Commander (C/JFMCC) activities. The ered fleet war games, exercises, education, research ary Education for Naval Component Commanders a including education and research initiatives in suppo-	ese h nd			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy						
Appropriation/Budget Activity 1319 / 6	& Project (Number/Name) & 1767 I Naval War Col Strategic Studies					
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)	FY 2013	FY 2014	FY 2015		
FY 2013 Accomplishments: - Continued ongoing research initiated in FY12 Delayed new Maritime Operations Center research until FY14 d	ue to FY13 funding reductions.					
FY 2014 Plans: Maritime Staff Operators Course (MSOC): - Expand research into the required competencies for Maritime S personnel to successfully operate at the operational level of war. - Actively participate in creation and review of existing and emerg development of evolving operational level issues. - Incorporate more interactive technologies for staff collaboration - Conduct research in advanced adaptive intelligence, information including adapting Spiral-developed systems into the MOC class: - Conduct research to improve coalition-related MOC education processes (continued improvements). Includes support for Maritime Advance other operational level of education at NWC and other Service experiments of the experiment of the experim	while conducting distributed operations. In warfare, and other advanced decision-support tools, from environment. In organis for International Officers and senior officers and Warfighting School (MAWS) and alignment with all lucational facilities. W); develop Course of Instructions (COI) to close same all operations of Commander, TENTH Fleet MOC with cific Fleet, as well as upward to the new USCYBERCOM action of information operations (to include cyber perations (network attack, defense, and of the domain, the potential effects on other MOCs action. The Commander of other MOCs to communicate results of ledge of joint information operations planning,					

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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 I Naval War Col Strategic Studies Supt

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- 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 undertsanding 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	4.76

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Navy

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 Ju	stification:	PB 2015 N	Navy							Date: Mare	ch 2014	
Appropriation/Budget Activity 1319 / 6			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `				Number/Name) avy Postgraduate School (NPS) 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 / Management, Technical & Intl Supt	Project (Number/ 2098 / Navy Postg Studies Support	,	ool (NPS)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)	FY 2013	FY 2014	FY 2015	
 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 					
FY 2015 Plans: - 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					

C. Other Program Funding Summary (\$ in Millions)

Conduct studies in support of US Fleet Forces Command
 Conduct studies in support of the Secretary of the Navy

Conduct studies in support of OPNAV N8
 Conduct studies in support of OPNAV N9

N/A

Remarks

D. Acquisition Strategy

N/A

Navy

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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14.000

5.000

Accomplishments/Planned Programs Subtotals

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. I JT Mission Assessment Studio			tudies					
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, 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 guickly 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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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity	, ,	- , (umber/Name)
1319 / 6	,	2221. <i>I JT</i>	Mission Assessment Studies
	Intl Supt		

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 6	PE 0605853N I Management, Technical &	2221. <i>I JT</i>	Mission Assessment Studies
	Intl Supt		

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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	- , (umber/Name) Mission Assessment Studies

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 Navv. 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 DPGContinue 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 aspecycles, training centers, depots, etc.) and personnel (recruitment, to Navy's warfighting platforms(aircraft,ships,submarines,etc.),facilities. Develop and continue to maintain a framework and common set of analyses, including scenarios, operational concepts, tactics, capable threat forces), key assumptions and input data were defined and traccontinue to develop scenarios and operational concepts based or and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriates. At the mission level, script OPSITS or TACSITS for use in effective	raining, development, deployment, retention, etc.) accross to a sand personnel development centers. In processes to ensure that essential elements of warfare positities of platforms and systems (for Navy, Joint, coalition acceable to government approved/provided source material government inputs that are sufficiently detailed for use in the modeling/methodology to support analyses.	and			
FY 2015 Plans: -Continue to develop, update and maintain detailed level Navy Start-Continue to develop alternative scenarios in support of Defense R. -Continue to develop, update, and maintain analytic baselines for the continue to develop details required to execute analysis of design Service Force Deployment Plans. -Continue to develop and maintain a framework and common set of analyses, including scenarios, operational concepts, tactics, capable threat forces), key assumptions and input data were defined and traccontinue to develop scenarios and operational concepts based or and joint campaign analyses. -Continue to develop MOPs and MOEs and recommend appropriate -At the mission level, continue to script OPSITS or TACSITS for us	Review guidance, Joint studies, and Navy resource analyst he MCO) based on DPG. nated Defense Planning Scenarios and their respective Must processes to ensure that essential elements of warfare politicistic of platforms and systems (for Navy, Joint, coalition acceable to government approved/provided source material government inputs that are sufficiently detailed for use in the modeling/methodology to support analyses.	ulti- and al. n naval			
Title: Capability Based Assessments with Campaign Mission Analy	• • • • • • • • • • • • • • • • • • • •	ticles:	2.105 -	2.501 -	2.53
FY 2013 Accomplishments: Performed collaborative assessment with capability sponsors. -Proactively participated in Capability Sponsors' Integrated Process -Presented opposing analytically-based points of view to the Chief -Provided analytically-based decision recommendations to CNO fo -Developed CNO investment strategy recommendations and asses Memorandum (POM).	of Naval Operations (CNO) and Navy senior leadership. or both war fighting and support areas.				

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B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)	FY 2	013 FY 2014	FY 2015
-Assessed capability sponsors' products for senior leadership deci- Conducted Verification, Validation & Accreditation of warfare, per- Conducted Overseas Contingency Operation (OCO) Capabilities- process to utilize a Concept of Operation, develop investment stra- Conducted Tactical Aircraft Recapitalization alternatives and Theasessments. -Conducted independent assessment of Anti-Submarine WarfareConducted weapons safety and sea basing capability assessmen- Conducted Intelligence, Surveillance, and Reconnaissance (ISR) to determine the optimal mix of Naval ISR and METOC sensors, p support Major Combat Operations (MCOs), the OCO, and intellige- Performed CBAs to meet the requirements of current and future seconomic frameworkPerformed rigorous, time critical naval and joint campaign and mithat illuminate complex warfare issues which support decision-mal processPerformed analyses and provide technical and engineering support ocunter a range of coordinate threat capabilities, high level trade architecture, mission-level effectiveness analyses that determine structures that determine the ability to meet peacetime deployment war and contingency operationsConducted cost analyses, cost-effectiveness analyses, and analy- Proposal, Navy Program Objective Memorandum or Warfare Capa- Developed innovative analysis techniques that evaluate the effect Warfare and Sea Shaping (influence) activities such as Theater Sc- Provided rigorous business case assessments of complex issues and personnel, training and education, infrastructure, both afloat a enterprise operationsPerformed analyses for accreditation of models, use estimate cos such as the Flying Hour Program, ship operations, ship and aircra FY 2014 Plans: -Perform collaborative assessment with capability sponsorsProactively participate in Capability Sponsors' Integrated Process	formance, and pricing models. Based Assessments (CBAs) that provide a rapid and scalategy, and a capability roadmap. Inter Ballistic Missile Defense cost capability trade off atts. and Meteorological and Oceanographic (METOC) assess latforms, and processing, analysis and fusion disposition to the preparation of the environment for both MCOs and Oceanorios, and make strategic decisions within a constraint session-level analyses, usually based on modeling and simulating in the Planning, Programming, Budgeting Execution fort, including joint campaign analysis that examine the abilities between service capabilities, or impact of large-scale system capabilities; conducted analyses of alternative force it or steady-state requirements and responded to transition ses of new technologies in support of Sponsor Program ability Plan. Itiveness of operations on the Long War focus on Irregular ecurity Cooperation. Telating to the war fighting support processes, manpower and ashore readiness, Naval Medical Program and provide at and performance of performance-based modeled prograft maintenance, spares, facilities, and base operation support forces.	ment o CO. ed lation ity e n to		

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B. Accomplishments/Planned Programs (\$ in Millions, Article	•	FY	2013	FY 2014	FY 2015
Present opposing analytically-based points of view to the CNO a Provide analytically-based decision recommendations to CNO for Develop CNO investment strategy recommendations and asses Assess capability sponsors' products for senior leadership decision. Conduct Verification, Validation & Accreditation of warfare, performand a capability roadmap. Conduct Tactical Aircraft Recapitalization alternatives and Thear Conduct independent assessment of Anti-Submarine Warfare. Conduct Weapons safety and sea basing capability assessments. Conduct ISR and METOC assessment to determine the optimal processing, analysis and fusion disposition to support MCOs, the MCOs and OCO. Perform CBAs to meet the requirements of current and future so economic framework. Perform rigorous, time critical naval and joint campaign and mist that illuminate complex warfare issues which support decision-morocess. Perform analyses and provide technical and engineering support to counter a range of coordinate threat capabilities, high level tracerchitecture, mission-level effectiveness analyses that determine structures that determine the ability to meet peacetime deployment and contingency operations. Conduct cost analyses, cost-effectiveness analyses, and analys Navy POM or Warfare Capability Plan. Develop innovative analysis techniques that evaluate the effection Sea Shaping (influence) activities such as Theater Security (Provide rigorous business case assessments of complex issues and personnel, training and education, infrastructure, both afloat enterprise operations. Perform analyses for accreditation of models, use estimate cost as the Flying Hour Program, ship operations, ship and aircraft masses and personnel, training and education, infrastructure, both afloat enterprise operations.	and Navy senior leadership. or both war fighting and support areas. sments for Program Review and POM. sion forums. ormance, and pricing models. o utilize a Concept of Operation, develop investment strategoreter Ballistic Missile Defense cost capability trade off assessing a cocommoder of Naval ISR and METOC sensors, platforms, and a cocommoder of Naval Island METOC sensors, platforms, and a cocommoder of the environment for because of an advantage of the environment for because of the environment for because of the planning, programming, and simulating in the Planning, Programming, Budgeting Execution at, including joint campaign analysis that examine the ability deoffs between service capabilities, or impact of large-scale system capabilities; conduct analyses of alternative force and or steady-state requirements and respond to transition to the service of the program and provided and performance of performance-based modeled programs and performance of performance-based modeled programs.	nents. ooth owar oosal, arfare			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)	FY 20	13 FY 2014	FY 2015	
Continue to perform collaborative assessment with capability sponsor-Continue to proactively participate in Capability Sponsors' Integrate -Continue to present opposing analytically-based points of view to the Continue to provide analytically-based decision recommendations to the Continue to develop CNO investment strategy recommendations are Memorandum. -Continue to assess capability sponsors' products for senior leaders' Continue to conduct Verification, Validation & Accreditation of warfactorinue to conduct OCO CBAs that provide a rapid and scalable postrategy, and a capability roadmap. -Continue to conduct Tactical Aircraft Recapitalization alternatives a assessments. -Continue to conduct independent assessment of Anti-Submarine Woontinue to conduct weapons safety and sea basing capability assessing continue to conduct ISR and METOC assessment to determine the and processing, analysis and fusion disposition to support MCOs, the both MCOs and OCO. -Continue to perform CBAs to meet the requirements of current and constrained economic framework. -Continue to perform rigorous, time critical naval and joint campaign simulation that illuminate complex warfare issues which support deconomic to perform analyses including joint campaign analysis that capabilities, high level tradeoffs between service capabilities, or impanalyses that determine system capabilities; conduct analyses of alt peacetime deployment or steady-state requirements and respond to Continue to conduct cost-effectiveness analyses and analyses of neady Program Objective Memorandum or Warfare Capability Plan. -Continue to develop innovative analysis techniques that evaluate the Irregular Warfare and Sea Shaping (influence) activities such as The-Continue to provide rigorous business case assessments of complemanpower and personnel, training and education, infrastructure, bot provider enterprise operations.	de Process Teams. The CNO and Navy senior leadership. The CNO for both war fighting and support areas. The decision for Program Review and Program Object This decision forums. The decision forums. T	ment e off ms, for and eat ss eet			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)		FY 2013	FY 2014	FY 2015	
-Continue to use estimate cost and performance of performance-bas operations, ship and aircraft maintenance, spares, facilities, and bas	, ,	n, ship				
Title: Campaign Analysis-Modeling and Simulation	Ar	ticles:	1.707 -	4.702 -	4.757 -	
-Maintained common baselines from which campaign excursions an -Identified and improved data and modelingLead Navy's participation in the Office of the Secretary of Defense (collection of dataProvided coordination across the NavyBrokered agreements upon assumptions, Concept of Operations (Collection and Company and Comp	OSD)/Joint Staff analytic agenda, baseline developmen CONOPS), scenarios, and data. (OPNAV).	t, and				
FY 2014 Plans: -Develop and maintain common baselines from which campaign exceldentify, develop, and improve data and modelingLead Navy's participation in the OSD/Joint Staff analytic agenda, bar-provide coordination across the NavyBroker agreements upon assumptions, CONOPS, scenarios, and delead campaign analysis for OPNAVConduct modeling and simulation support for ongoing OPNAV miss	aseline development, and collection of data.					
FY 2015 Plans: -Continue to develop and maintain common baselines from which caContinue to identify, develop and improve data and modeling. -Continue to lead Navy's participation in OSD/Joint Staff analytic age -Continue to provide coordination across the Navy. -Continue to broker agreements upon assumptions, CONOPS, scen -Continue to lead campaign analysis for OPNAV. -Continue to conduct modeling and simulation support for ongoing Continue to conduct modeling and simulation support	enda, baseline development, and collection of data. arios, and data. PNAV missile defense analysis requirements.	cuted.				
Title: OSD/Joint Staff Study Analysis and Assessment with Investment	ent Strategy Development		0.933	1.712	1.733	

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B. Accomplishments/Planned Programs (\$ in Millions, Article C	Quantities in Each)	FY 201	3 FY 2014	FY 2015	
	Ai	rticles:			
FY 2013 Accomplishments: -Coordinated OSD/Navy's Analytic Agenda in Defense Planning Sc Process, Strategic Planning Guidance, and participate in Capability -Provided overarching PPBES analyses and guidanceProvided analytically-based decision recommendations to Office of and support areasConducted net assessments and provided independent analytic sulevel decision forumsServed as the Navy's lead to Joint Requirements Oversight Councing Coordinated Navy's role in Defense Planning Guidance, Program Defense Science Board studiesDeveloped new analytic techniques for informing resource allocation level analyses and developed investment strategy.	Sponsors' Integrated Process Teams. If the Chief of Naval Operations (OPNAV) for joint war figle Support to Navy leadership in conjunction with various execution. Joint Capabilities Board, and Functional Capabilities Board, and Procession Memoranda, Quadrennial Defense Review, and	hting cutive Board.			
-Coordinate and lead OSD/Navy's Analytic Agenda in Defense Plant Planning Process, Strategic Planning Guidance, and participate in Corprovide overarching PPBES analyses and guidance. -Provide analytically-based decision recommendations to OPNAV for Conduct net assessments and provide independent analytic supposed level decision forums. -Serve as the Navy's lead to Joint Requirements Oversight Council Provide the lead requirements and acquisition for OPNAV. -Coordinate and lead Navy's role in Defense Planning Guidance, Pland Defense Science Board studies. -Participate in OSD and JS analysis assessment and provided structure Coordinate and support Joint Analytical Model Improvement Progra-Develop new analytic techniques for informing resource allocation analyses and develop investment strategy. FY 2015 Plans:	Capability Sponsors' Integrated Process Teams. or joint war fighting and support areas. ort to Navy leadership in conjunction with various executive, Joint Capabilities Board, and Functional Capabilities Board rogram Decision Memoranda, Quadrennial Defense Revecture for coordination across the Navy. am.	ve pard. iew,			

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			ect (Number/Name) 1. I JT Mission Assessment Studies			
Quantities in Each)		FY 2013	FY 2014	FY 2015		
icipate in Capability Sponsors' Integrated Process Teams to OPNAV for joint war fighting and support areas. nalytic support to Navy leadership in conjunction with variously to Capabilities Board, and Functional NAV.	ous efense					
Ar	ticles:	-	6.716	6.79 -		
ring POM decision-making. I Navy analytic agendas and resource-allocation decision performance-modeled programs in support of OPNAV ana	alysis ive					
	PE 0605853N / Management, Technical & Intl Supt Quantities in Each) Defense Planning Scenario, Multi-Service Force Deploymicipate in Capability Sponsors' Integrated Process Teams to OPNAV for joint war fighting and support areas. It is allytic support to Navy leadership in conjunction with varietight Council, Joint Capabilities Board, and Functional MAV. Guidance, Program Decision Memoranda, Quadrennial Description of Coordination across the Navy. It is allocation decisions; conduct all campaign and warfare allocation decisions; conduct all campaign and warfare in POM decision-making. I Navy analytic agendas and resource-allocation decision performance-modeled programs in support of OPNAV analytic agaption and campaign-level warfighting models, act capabilities.	PE 0605853N / Management, Technical & Intl Supt Quantities in Each) Defense Planning Scenario, Multi-Service Force Deployment, icipate in Capability Sponsors' Integrated Process Teams. Ito OPNAV for joint war fighting and support areas. It is in a conjunction with various i	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt Quantities in Each) Defense Planning Scenario, Multi-Service Force Deployment, icipate in Capability Sponsors' Integrated Process Teams. Ito OPNAV for joint war fighting and support areas. Inalytic support to Navy leadership in conjunction with various ight Council, Joint Capabilities Board, and Functional IAV. Guidance, Program Decision Memoranda, Quadrennial Defense rovided structure for coordination across the Navy. Integrated Process Teams. Articles: Articles: Integrated Process Teams. Articles: Articles: Integrated Process Teams. Integrated	PE 0605853N / Management, Technical & 2221.1 JT Mission Assessment (Intl Supt) Quantities in Each) Defense Planning Scenario, Multi-Service Force Deployment, icipate in Capability Sponsors' Integrated Process Teams. Ito OPNAV for joint war fighting and support areas. It is in a conjunction with various and various and conjunction decision and campaign and warfare Pry 2013 FY 2014 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2018 FY 2019 FY 2014 FY 2019 FY 2019 FY 2014 FY 2019 FY 2014 FY 2013 FY 2014 FY 2014 FY 2013 FY 2014 FY 2014 FY 2013 FY 2014 FY 2014 FY 2015 FY 2014 FY 2014 FY 2014 FY 2015 FY 2014 FY 2014 FY 2014 FY 2015 FY 2014 FY 20		

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B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2013	FY 2014	FY 2015
-Update the high-level readiness model that fully integrates all as cycles, training centers, depots, etc.) and personnel (recruitment, Navy's warfighting platforms (aircraft, ships, submarines, etc.), fa	, training, development, deployment, retention, etc.) across				
-Continue to develop and improve the Navy's analysis capabilities allocation decision making by refining the linkages between cost OPNAV analysis and assessment. Areas of tool development are models, active and reserve manpower, afloat and ashore reading -Continue to focus on integrated analysis capabilities that cut acre cyber warfare and security, optimizing the training pipeline, integrated and improving mission- and campaign-level C5ISR models, and improving mission- and campaign analysis including treatment of injured and recuperation support of injured to support -Update the high-level readiness model that fully integrates all as cycles, training centers, depots, etc.) and personnel (recruitment, Navy's warfighting platforms (aircraft, ships, submarines, etc.), fa	and performance in performance-modeled programs in sup not improvement include mission- and campaign-level warfig ess, and medical capabilities. coss business and program accounts. Specific efforts will acrating ship maintenance and operations price performance els and representations. In movement of injured between care facilities, life-saving rt Navy Medical Program decisions. Spects of warfighting support (operational utilization, training, training, development, deployment, retention, etc.) across	port of hting ddress			
Title: CONFORM	Ar	ticles:	-	3.462	3.5
FY 2013 Accomplishments: N/A	· · ·				
FY 2014 Plans: - Conduct ship, boat and unmanned marine vehicle concept stud and Analysis of Alternatives (AoAs). Studies will be performed in Combatants, Amphibious Ships, Carriers, Auxiliary Ships and oth - Collaborate with Warfare Systems design experts to perform co Warfare Systems effectiveness assessment tools will be continued concepts and to incorporate improvements in information technol networks by continuing dialog and collaboration between NAVSE level requirements. - Refine platform concept stage cost analysis tools to predict cost appropriate. It will continually enhance tools to estimate total own	a continuous manner to support future recapitalization of Soner emerging program requirements. Intinuous Warfare Systems analysis at the ship and fleet levally developed and enhanced as required to address future logy systems. Additionally, collaboration with aircraft, C4ISFEA, NAVAIR, and SPAWAR systems commands will refine flet better in areas where weight-based algorithms may not be	vel. R, and leet			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quar	ntities in Each)		FY 2013	FY 2014	FY 2015
Further develop Cost Estimating Relationships (CERs) to accommodate Develop cost estimating tools which incorporate emerging technologies - Conduct future force structure concept formulation. Fleet synthesis an requirements, platform design and cost and quantitative tracking of the introduced and old ones are retired. Among the areas to be examined a studies, Long Range Shipbuilding Schedule (LRSS) support, and opera -Continue CBA's for off-board data transfer for mine warfare systems, No breathing apparatus. Commence CBA for surface connector replacements	applicable to future platforms. Id analysis will be conducted, which includes capabilit long-term evolution of the fleet as new platforms are are interoperability concepts, force architecture impactational employment concept studies. Navy Salvage, adversary aircraft, and uunderwater	ies			
-Conduct ship, boat, and unmanned marine vehicle concept studies in pand Analysis of Alternatives (AoAs). Studies will be performed in a consurface Combatants, Amphibious Ships, Carriers, Auxiliary Ships and concollaborate with Warfare Systems design experts to perform continuous Warfare Systems effectiveness assessment tools will be continually deconcepts and to incorporate improvements in information technology synetworks by continuing dialog and collaboration between NAVSEA, NA level requirements. -Refine platform concept stage cost analysis tools to predict costs better appropriate. It will continually enhance tools to estimate total ownership concept development stage. Conduct cost estimates in support of future Further develop Cost Estimating Relationships (CERs) to accommodate Develop cost estimating tools which incorporate emerging technologies -Conduct future force structure concept formulation. Fleet synthesis and requirements, platform design and cost and quantitative tracking of the introduced and old ones are retired. Among the areas to the examined studies, Long Range Shipbuilding Schedule (LRSS) support, and operations. Complete CBA's for undergraduate flight training and surface connector systems such as neutralization of sea mines in the near-surface zone as warfighting gap assessments to address interaction of mission area kill system construct. Provide analysis support for development of the Inequality Direction.	tinuous manner to support future recapitalization of other emerging program requirements. Us Warfare Systems analysis at the ship and fleet level veloped and enhanced as required to address future vetens. Additionally, collaboration with aircraft, C4ISI VAIR, and SPAWAR systems commands will refine fler in areas where weight-based algorithms may not be perfectly concept design exploration, CBA, and AoA efforts. The emerging technologies incorporated in future platforms applicable to future platforms. The danalysis will be conducted, which includes capability long-term evolution of the fleet as new platforms are are interoperability concepts, force architecture imparational employment concept studies. The program of the active RF free-fall expendable decoy. Expandichain platforms, sensors, and weapons in a system-chain platforms, sensors, and weapons in a system-concept studies.	el. R, and eet em ms. ies ct			
Title: Joint Mission Assessment Studies	Λν	ticles:	5.318	2.735	4.249
	Ar	ucies:	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
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	24.912

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 / Management, Technical & Intl Supt	(umber/Name) Mission Assessment Studies

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
	, ,	umber/Name) Mission Assessment Studies

-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. I JT Mission Assessment Studies
process that support the Program Objective Memorandum decision-making process that support		
analyses. METRIC: Develop model design documents, model study reports, s validation	ystem specifications, updated model reports,	model documentation, model verification and
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: Marc	ch 2014	
Appropriation/Budget Activity 1319 / 6				R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & 2801 / Anti					ne)			
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: Anti-Tamper	-	-	-	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.

complishments/Blanned Bregrems (f. in Millians, Article Quantities in Each)

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)	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

C. Other Program Funding Summary (\$ in Millions)

N/A

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xhibit R-2A, RDT&E Project Justification: PB 2015 N	Navy	Date: March 2014
ppropriation/Budget Activity 319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (Number/Name) 2801 / Anti-Tamper
Other Program Funding Summary (\$ in Millions)		
<u>emarks</u>		
<u>. Acquisition Strategy</u> I/A		
Performance Metrics		
	ation and testing of Anti Tamper measures for the Department of the	e Navy. Manage Information Security for
avy programs unroughout their mecycles.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: Marc	ch 2014	
1319 / 6				R-1 Program Element (Number/Name) PE 0605853N I Management, Technical & Intl Supt Project (Number/Name) 3025 I Mid-Range Financial Improver					vement			
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	0.573	0.879	0.717
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.			
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 I 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 Officer	rs Act.	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy											ch 2014	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & 3039 / CHB					ne)		
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 familyof-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	3.253	4.982	3.984
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			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	larch 2014	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605853N / Management, Technical & Intl Supt	Project (3039 / CF	Number/N HENG	lame)	
B. Accomplishments/Planned Programs (\$ in Millions, Article (Quantities in Each)	F	Y 2013	FY 2014	FY 2015
 Supported 11 Program Offices with ISP planning and developmer Reviewed 2 USN and 23 DoD/Other Service ISPs with an addition 					
FY 2014 Plans: - Continue policy analysis, studies and guidance to include issue id - 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)	Ar	ticles:	1.909 -	2.805 -	2.21 -
Description: Development and implementation of the Navy Enterpresource for Naval integration and interoperability information to en organizations, Program Executive Offices, Program Managers, Sys Sponsors and Comptroller organizations.	nable collaboration and decision support among Fleet	•			
FY 2013 Accomplishments: - Deliverered Phase I of NEAR - Developed architecture design training using NSERC to support s - Supported Naval Enterprise Capabilities by translating operational architecture tools in the SE process in compliance with DoDAF 2.0 - Provided common approach to standardize the methods, tools an architecture products for capability assessment and design of Wea	al requirements to system performance requirements using ; the NR KPP CJCSI 6212.01F and JCIDS directive 3170 and ability to develop accurate and cost effective DoDAF				
FY 2014 Plans: - Continue Phased Delivery (Phase II) of NEAR					
FY 2015 Plans: - Continue Phased Delivery (Phase III) of NEAR					
Title: Systems Engineering	Ar	ticles:	7.380 -	10.844 -	7.04 -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	larch 2014	
Appropriation/Budget Activity 1319 / 6	Project (Number/Name) 3039 / CHENG				
B. Accomplishments/Planned Programs (\$ in Millions, Article (Quantities in Each)		FY 2013	FY 2014	FY 2015
Description: Provide the framework for making engineering decision of Systems level and supports consistent engineering and investment within-capability based acquisition portfolio					
FY 2013 Accomplishments: - Incorporated MLA&E process into the System of Systems (SoS) Completed the Knowledge, Skills and Abilities (KSA) listing for the Delivered the Navy's Systems Engineering Health Assessment (Aonomical Revised the Systems Engineering Technical Review (SETR)/Gate Provided Program Office assistance with Systems Engineering Place SEP's. - Initiated the Reserve Component Corrosion Prevention and Contract Held 3 Anti-Tamper (AT) planning Summits with the other service technology development and acquisition.	e SE Human Resources Competency Model Annual Requirement) to DoD. e Review I&I Criteria lan (SEP) reviews. Completed the review of 5 Program rol Initiative.	Office			
FY 2014 Plans: - Complete and Deliver the Systems Engineering Human Resource - Continue Corrosion Prevention and Control initiatives - Continue Anti-Tamper policy development for implementation and - 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 - Complete and transition I&I initatives to OPNAV/Fleet component - Continue Program Office SEP review and support					
	Accomplishments/Planned Programs Sul	btotals	12.542	18.631	13.24

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		
1	,	Project (N 3039 / CH	umber/Name) ENG

D. Acquisition Strategy

N/A

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E. Performance Metrics

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				PE 0605853N / Management, Technical & 3330 / Nav				lumber/Name) val Research Laboratory (NRL) 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.

FY 2013	FY 2014	FY 2015
2.191	2.393	1.611
-	-	-
2.191	2.393	1.611
	2.191	2.191 2.393

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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 I Naval Research Laboratory (NRL) Facilities Modernization
C. Other Program Funding Summary (\$ in Millions) N/A		
<u>Remarks</u>		
D. Acquisition Strategy None		
E. Performance Metrics Restoration and modernization of the laboratory facilities will begin in a phased	d approach until completion.	

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Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2015 N	Navy							Date: Marc	ch 2014	
Appropriation/Budget Activity 1319 / 6				R-1 Program Element (Number/Name) PE 0605853N I Management, Technical & Intl Supt				Project (Number/Name) 3363 / PACOM 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
3363: PACOM Initiative	-	-	7.950	7.945	-	7.945	14.945	14.940	14.940	15.224	Continuing	Continuing

0.000

Note

This funding is for a classified effort.

Quantity of RDT&E Articles

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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^{*} The FY 2015 OCO Request will be submitted at a later date.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy									Date: Marc	ch 2014		
Appropriation/Budget Activity 1319 / 6					,				Project (Number/Name) 3381 / JIE Initiiative			
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 Initiiative	-	-	-	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		
1	,	Project (N 3381 / JIE	umber/Name) Initiiative

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 sc	enario 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: Mar	ch 2014	
Appropriation/Budget Activity 1319 / 6				, ,				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

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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/Note that the property of the property of the program of the property of the property of the property of the program of the property of th				umber/Name) ngressional Adds
B. Accomplishments/Planned Programs (\$ in Millions) - Complete establishment of strategic electronic parts commonality framework ar reduce program risk and costs - Complete development of PRCB and interconnect technology roadmap/strategic	FY 2013	FY 2014		
	12.457	7.000		

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Navy

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 indentify 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 indentifying future technology research and development needs and securing the domestic military market.

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