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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0604707N: <i>SEW Architecture/Eng Support</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	31.785	33.573	31.549	-	31.549	31.665	35.579	32.423	32.136	Continuing	Continuing
0798: <i>Allied/Coalition Interoperability and Information Dominance (ACIID)</i>	0.840	0.792	0.772	-	0.772	0.783	0.784	0.786	0.799	Continuing	Continuing
2144: <i>Space & Elec Warfare Engineering</i>	9.864	9.245	9.085	-	9.085	8.657	8.687	8.500	8.472	Continuing	Continuing
2356: <i>Maritime Concept Generation & Development</i>	-	-	8.323	-	8.323	8.432	9.178	7.800	8.729	Continuing	Continuing
2357: <i>Maritime Battle Center</i>	21.081	8.848	-	-	-	-	-	-	-	0.000	29.929
3319: <i>Fleet Experimentation</i>	-	14.688	13.369	-	13.369	13.793	16.930	15.337	14.136	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) contains four projects: Maritime Battle Center (MBC), Fleet Experimentation (beginning in FY12 with funding moving from MBC), Allied/Coalition Interoperability and Information Dominance (ACIID), and Space and Electronic Warfare (SEW) Engineering. The MBC project (2357) focuses on fleet experimentation in order to eliminate war fighting gaps and validate Navy Concept of Operations (CONOPS) and doctrine. The MBC also manages the Sea Trial program of fleet experimentation that is administered by the Sea Trial Executive Steering Group (STESG). Both MBC and Sea Trial integrate emergent concepts and technologies through experiments, analysis, modeling and simulation to support war fighting capability development. Sea Trial experimentation is dedicated to providing solutions to near term (within the Fiscal Year Defense Plan) war fighting gaps through focused operational agent (Commander Second Fleet, Commander Third Fleet and Commander Naval Network Warfare Command) led experimentation. The flag level Sea Trial Executive Steering Group prioritizes proposed Sea Trial experiments annually. The MBC will also serve as the Navy representative to the Joint Battle Center and the battle labs of other services.

The ACIID and SEW Engineering projects (0798 and 2144 respectively) are systems engineering non-acquisition programs to develop, test, implement technical authority, and validate naval Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) architectures to support naval missions in the Joint and Coalition Theater. The mission of these projects are carried out by multiple tasks that are used to ensure naval C4ISR Command and Control Warfare (C2W) components of SEW are effectively integrated into service-oriented architecture delivering net-centric warfare capability. Additionally, these projects ensure that (1) the composite operational capabilities of SEW systems (not the individual component systems) conform to the naval C4ISR architecture and enhance war fighting capability as related to the objectives of National Defense Strategy, evolving joint visions and direction, such as net centric capability, and are guided by warfighter requirements; (2) that SEW systems and systems integration efforts involve leading-edge technology transfer of information processing technologies primarily through integration of government and commercial off-the-shelf (GOTS/COTS) products to enhance the Navy's operational capability, interoperability, warfighter effectiveness, flexible reconfiguration, as well as reduce costs; and (3) that SEW systems integration efforts promote the delivery of Information Dominance and the Navy's contribution to the Global Information Grid (GIG).

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1319: Research, Development, Test & Evaluation, Navy		PE 0604707N: SEW Architecture/Eng Support			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	34.793	33.621	33.181	-	33.181
Current President's Budget	31.785	33.573	31.549	-	31.549
Total Adjustments	-3.008	-0.048	-1.632	-	-1.632
• Congressional General Reductions	-	-0.048			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.000	-			
• SBIR/STTR Transfer	-0.805	-			
• Program Adjustments	-	-	-1.226	-	-1.226
• Rate/Misc Adjustments	-	-	-0.406	-	-0.406
• Congressional General Reductions Adjustments	-0.203	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 0798: Allied/Coalition Interoperability and Information Dominance (ACIID)			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
0798: Allied/Coalition Interoperability and Information Dominance (ACIID)	0.840	0.792	0.772	-	0.772	0.783	0.784	0.786	0.799	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Starting in FY 2011, the Coalition Naval Tactical Networking (CNTN) effort is referred to as Anti-Access Area Denial (A2AD).

A. Mission Description and Budget Item Justification

The Allied/Coalition Interoperability and Information Dominance (ACIID) program advances network centric warfare and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) interoperability with Australia, Canada, New Zealand, United Kingdom, United States (AUSCANNZUKUS), North Atlantic Treaty Organization (NATO) and other allied and coalition partners. The program determines allied and coalition maritime operational gaps, identifies Doctrine, Organization, Training, Material, Leadership, Personnel and Facilities solutions with the potential to fill those gaps, and assesses these solutions and associated concepts of operation in laboratory and at-sea environments. The ACIID program includes integration and testing in support of joint and coalition war fighting capabilities, including interoperability testing of C4ISR equipments. Coalition and joint interoperability is critical for future maritime operations, especially as the United States Navy expands Internet Protocol (IP) networking throughout the fleet via Consolidated Afloat Networks and Enterprise Services, Next Generation Networks, Multi-National Information Sharing and with the Global Information Grid. Currently, IP connectivity with AUSCANNZUKUS and other allied/coalition forces is limited, requiring extensive backhaul through ashore infrastructure. Higher bandwidth solutions suitable for use over tactical networks require development and assessment for emerging coalition and joint interoperability requirements, such as A2AD and Maritime Domain Awareness. Increases in data throughput are required for the effective exchange of rich data sets and services via Service Oriented Architectures within the limitations of High Frequency, Ultra-High Frequency and other portions of the radio frequency spectrum, coupled with appropriate Information Assurance and Computer Network Defense mechanisms. Development and assessment of potential solutions will integrate improved IP capabilities with the Advanced Digital Network Systems and existing international standards (e.g. NATO Standardization Agreements 5066 and 4691). The continued development and refinement of advanced tactical networking technologies and protocols, as well as automatic link establishment standards, 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 2011	FY 2012	FY 2013
Title: ADVANCED RELAY CAPABILITIES	0.840	0.792	0.772
Articles:	0	0	0
Description: Starting in FY 2011, the CNTN effort is referred to as A2AD.			
FY 2011 Accomplishments:			
-Developed and refined advanced relay capabilities that support A2AD. Solutions addressed advanced relay technologies, coalition routing architectures (with an emphasis on ciphertext or "black core" routing), application architectures/configurations and			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<p>Information Assurance/Computer Network Defense (IA/CND) solutions that maximized network efficiency using multiple, dissimilar bearers in the Anti-Access Area Denial (A2AD) environment on Combined Enterprise Regional Information Exchange System.</p> <p>-Integrated these advanced solutions with High Assurance Internet Protocol Encryption (HAIZE) devices and Service Oriented Architecture (SOA) in a coalition networking environment.</p> <p>-Progressed the standardization of Subnet Relay into North Atlantic Treaty Organization (NATO) Standardization Agreements (STANAGs) 4691 (Subnet Relay) and 5066 Edition 3 High Frequency Internet Protocol (HFIP/Ultra-HFIP multi hop).</p> <p>-Refined broadband solutions, such as wide-band Ultrahigh Frequency (UHF) and Spatially Aware Wireless Networking, which enhanced throughput and promoted allied interoperability and assessed the ability of these solutions to support SOA.</p> <p>-Exploited venues of opportunity, such as Trident Warrior to evaluate and validate the individual technologies as well as integrated solutions through testing, trials and demonstrations.</p> <p>FY 2012 Plans:</p> <p>-Continue the development and refinement of advanced relay capabilities that promote interoperability with Australia, Canada, New Zealand, United Kingdom, United States (AUSCANNZUKUS), NATO and other allied/coalition forces and support A2AD and Network Operations without Shore (NOWS).</p> <p>-Solutions will address higher bandwidth technologies, such as wide-band High Frequency (HF), wide-band UHF and broadband directional communications/networking, advanced relay technologies, coalition routing architectures (with an emphasis on cipher-text or "black core" routing), application and service architectures supporting A2AD/NOWS, and IA/CND solutions. Maximize interoperability and network efficiency using multiple, dissimilar bearers and integrate these advanced solutions with HAIZE devices and SOA in an A2AD/NOWS coalition networking environment.</p> <p>-Continue to progress the standardization of Maritime Relayed Line of Sight Network and HFIP into NATO STANAGs 4691 and 5066 respectively.</p> <p>-Venues of opportunity, such as Trident Warrior, will be exploited to assess and validate the individual technologies, integrated solutions and associated Doctrine, Organization, Training, Material, Leadership, Personnel and Facilities through experimentation, trials and demonstrations with AUSCANNZUKUS and other Allied/Coalition partners.</p> <p>FY 2013 Plans:</p> <p>-Continue the development and refinement of advanced relay and communication capabilities that promote interoperability with AUSCANNZUKUS, NATO and other allied/coalition forces and support A2AD and NOWS. Solutions will address higher bandwidth technologies, such as wide-band HF, High Data Rate UHF and 3G/4G wireless.</p> <p>-Secure coalition routing architectures incorporating HAIZE devices that support tactical networking and A2AD will be developed along with distributed SOA applications and services architectures and advanced IA/CND solutions. The overall goal is to maximize interoperability and network efficiency using multiple, dissimilar bearers and integrate these advanced solutions into an A2AD/NOWS coalition tactical networking environment that would also include tactical data links, such as Link-22.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
-Continue to progress the North Atlantic Treaty Organization (NATO) standardization of Maritime Relayed Line of Sight Network Standardization Agreements (STANAG 4691) and High Frequency Internet Protocol (STANAG 5066 Edition 3). -Venues of opportunity, such as Trident Warrior, will be exploited to assess and validate the individual technologies, integrated solutions, and associated Doctrine, Organization, Training, Material, Leadership, Personnel and Facilities (DOTMLPF) through experimentation, trials and demonstrations with Australia, Canada, New Zealand, United Kingdom, United States (AUSCANNZUKUS) and other Allied/Coalition partners.			
Accomplishments/Planned Programs Subtotals		0.840	0.792
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Allied/Coalition Interoperability and Information Dominance (ACIID) is a non-acquisition program that promotes United States Navy interoperability with allied and coalition forces to achieve the Chief of Naval Operations vision by facilitating maritime interoperability in both processes and communications systems, including emerging capabilities, to counter growing high-end asymmetric threats, and is a key enabler of the force multiplying benefits achieved through coalition cooperation among the AUSCANNZUKUS, NATO and other partner nations.			
E. Performance Metrics			
Advanced Relay Capabilities: In FY12 and FY13, the ACIID program will employ laboratory testing and at-sea demonstrations to assess specific technologies, operational concepts, and integrated DOTMLPF solutions pertaining to Anti-Access Area Denial, Service Oriented Architectures, and Maritime Domain Awareness. These assessments will report on identified capability gaps, link capability gaps to technology/ DOTMLPF gaps, identify technologies and DOTMLPF solutions considered ready for deployment, transition to a program of record to enhance Fleet war fighting capability and enhance allied and coalition interoperability.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Relay Capabilities	Various	Various:Various	12.129	-		-		-		-	0.000	12.129	
Advanced Relay Capabilities	WR	SPAWAR:San Diego	0.853	0.792	Jan 2012	0.772	Jan 2013	-		0.772	Continuing	Continuing	Continuing
Interoperability Requirements	Various	Various:Various	3.266	-		-		-		-	0.000	3.266	
T & E Tools Development	Various	Various:Various	0.429	-		-		-		-	0.000	0.429	
Systems Int. & Interop. Testing (LBTN)	Various	Various:Various	3.862	-		-		-		-	0.000	3.862	
Interoperability Validation	Various	Various:Various	2.748	-		-		-		-	0.000	2.748	
Joint Interoperability	Various	Various:Various	1.174	-		-		-		-	0.000	1.174	
Testing OTH-T Systems	Various	Various:Various	3.069	-		-		-		-	0.000	3.069	
Subtotal			27.530	0.792		0.772		-		0.772			
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Various:Various	1.468	-		-		-		-	0.000	1.468	
ACQ Workforce Fund	Various	Various:Various	0.009	-		-		-		-	0.000	0.009	
Subtotal			1.477	-		-		-		-	0.000	1.477	
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			29.007	0.792		0.772		-		0.772			
Remarks													

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2144: Space & Elec Warfare Engineering	9.864	9.245	9.085	-	9.085	8.657	8.687	8.500	8.472	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

OPNAVINST 3050.23 defines the policy to fuse validated and approved Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) architectures and interoperability requirements with joint requirements, milestones and program decisions. C4ISR integrated architectures are the underpinnings for all C4ISR mission areas and capabilities and, as such, requirements and acquisition processes have been reengineered to use these Integrated Architectures for decisional purposes and strategic planning.

Furthermore, Office of the Secretary of Defense (OSD) has defined key programs/efforts Global Information Grid Baseline Extension, Joint Tactical Radio System, Network Centric Enterprise Services, Information Assurance and standards that will drive and change the Navy's C4ISR integrated architectures and associated business processes for requirements, budgets and acquisition. To that end, the Space and Electronic Warfare provides three main functions: 1) Perform System of Systems and platform technical evaluations to establish the alignment with the N2/N6 Information Dominance vision and identify performance and operational risks associated with the integration of multiple systems to provide a robust, mission based capability. 2) Develop C4ISR integrated architecture products and 3) Support C4ISR systems engineering processes and standards. The integrated architecture products are used to support the Navy's C4ISR budget process by providing the critical core architecture and enabling capabilities to the war fighter. The C4ISR systems engineering processes and standards provide the construct for distributed Command and Control (C2) interoperability requirements analyses to identify capability shortfalls/gaps and for systems engineering to compare/test alternatives in a joint end-to-end environment while identifying associated Navy-wide C4ISR implications. Processes include developing and applying criteria for use in Systems Engineering Technical Reviews and providing technical input to governance bodies. This includes Human Systems Integration (HSI) to provide a mission-centered orientation to ensure effective operational employment of fielded capability. As joint concepts and OSD driving efforts/programs are matured/defined the Navy's C4ISR integrated architectures are refined and the supporting C4ISR systems engineer processes and standards work to engineer and enact C4ISR implementations Navy-wide across all C4ISR mission areas.

Products provided:

1) C4ISR integrated architectures

- Integrated Architectures and Standards - Architecture Views (Operational Views, Service Views, Technical Views, System Views)
- Migration roadmaps to the target architectures
- Architecture technical authority, studies, interpretation assistance, and white papers

2) Supporting C4ISR systems engineering processes

- Distributed C2 Interoperability Requirement Analysis - Gaps Analysis, Overlap Analysis, System Priority Lists, C4ISR Metrics and Models, Analysis of Alternatives, Requirements Database, Assessment Repository, Resource Implications Studies, Baseline Performance Models, Mission Task Analysis, HSI assessments.
- End-to-End Systems Engineering and Integrated Design - Operational feasibility studies, technical feasibility studies, technical roadmap engineering validations, Architectures and Assessment traceability matrices.

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<p>- Joint and Coalition interoperability trials - Joint End-to-End prototyping trials, and joint/coalition interoperability demonstrations, interoperability assessments and metrics, and interoperability studies via the Coalition Warrior Interoperability Demonstration (CWID). United States Navy (USN) provides funding to the general CWID operating budget and participates by operating a USN demonstration site.</p> <p>3) Compliance and alignment reports with Navy Enterprise Architecture/Data Strategy and Assistant Secretary of the Navy for Research, Development, and Acquisition system engineering policies generated during Systems Engineering Technical Reviews (SETRs).</p>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Title: C4ISR SYSTEMS ENGINEERING		4.329	3.331	3.351
Articles:		0	0	0
FY 2011 Accomplishments: -Navy Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Transformation/ Strategic Planning within Navy/Joint/Department of Defense Framework: Assessed existing and emerging capabilities; developed and evaluated Navy-wide policies, plans, requirements, and compliance; developed integration and investment strategies; and accelerated innovation, testing, assessment and fielding of material and non-material solutions for enhanced operational capability, joint/allied/coalition interoperability and application/enforcement of enterprise requirements/architectures/standards toward greater Net-Centric Operations/Warfare capability. -Implemented and validated interoperability requirements: Performed Systems Engineering Technical Reviews utilizing validated assessment tools and system engineering methodologies to ensure standard engineering processes (e.g., Information Assurance , data strategy, architecture, modeling, Service Oriented Architecture development were developed and utilized to ensure minimized design and testing risk as well as interoperability compliance to statutory and regulatory directives and guidance. -Conducted document reviews (of Systems Engineering Plans, Information Support Plans, Interoperability Control Document/ Competitive Design Development/Consolidated Programming Document, Information Assurance Strategies, Acquisition Strategies, etc.) for Office of the Chief of Naval Operations, Assistant Secretary of the Navy for Research, Development and Acquisition, and the Program Executive Offices, and other services to ensure sound systems engineering analysis and design principles have been applied to system planning requirements, design, testing, and supportability. -Performed engineering evaluation and provided buy/no-buy decisions for proposed Deviations from Specification for afloat platforms to determine performance and operational impacts of the proposed change and their effects on the platforms mission. -Provided engineering evaluation and validation of Business Information Technology (IT) applications and IT infrastructure in order to combine, consolidate, and eliminate unnecessary or underutilized business systems for the Naval enterprise. - Provided engineering evaluation and validation of programs and ensure adherence to technical standards in the following technical domains- communications, networks, Information Storage and Retrieval/Information Surveillance Reconnaissance/ Information Operations, afloat platforms (both large and small decks), submarines, shore and Maintenance Operations Center capability, command and control, and space systems.				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<p>-Conducted platform technical evaluations through design and testing analysis ensuring C4ISR delivery to the platform (shore, surface ship, submarine) is validated to meet the operational need and is interoperable with platform, force level, joint/allied/coalition forces.</p> <p>FY 2012 Plans:</p> <p>-Continue Navy C4ISR and Information Dominance Transformation/Strategic Planning within Navy/Joint/Department of Defense Framework: Assess existing and emerging capabilities; develop and evaluate Navy-wide policies, plans, requirements, and compliance; develop integration and investment strategies; and accelerate innovation, testing, assessment and fielding of material and non-material solutions for enhanced operational capability, joint/allied/coalition interoperability and application/enforcement of enterprise requirements/architectures/standards toward greater Net-Centric Operations/Warfare and Information Dominance capability.</p> <p>-Establish, develop, and validate interoperability requirements: Continue to perform Systems Engineering Technical Reviews (SETRs) utilizing validated assessment tools, system engineering methodologies and SETR checklists tracing system design to standards and requirements (e.g., Information Assurance, data strategy, architecture, modeling, Open Architecture, Configuration Management, Service Oriented Architecture development, Anti-tamper, etc) ensuring interoperability compliance to statutory and regulatory directives and guidance. Ensure continuous improvement of SETR Checklists by incorporating the latest policy, guidance, standards, and specifications.</p> <p>-Perform System of Systems and platform technical evaluations to establish the alignment with the N2/N6 Information Dominance vision and identify performance and operational risks associated with the integration of multiple systems to provide a robust, mission based capability.</p> <p>-Continue to conduct document reviews (of Systems Engineering Plans, Information Support Plans, Interoperability Control Document/Competitive Design Development/Consolidated Programming Document, Information Assurance Strategies, Acquisition Strategies, etc.) for Office of the Chief of Naval Operations, Assistant Secretary of the Navy for Research, Development and Acquisition, and the Program Executive Offices, and other services to ensure sound systems engineering analysis and design principles have been applied to system planning requirements, design, testing, and supportability.</p> <p>-Continue to perform engineering evaluation and provide buy/no-buy decisions for proposed Deviations from Specification for afloat platforms to determine performance and operational impacts of the proposed change and their effects on the platforms mission.</p> <p>-Continue to provide engineering evaluation and validation of Business Information Technology (IT) applications and IT infrastructure in order to combine, consolidate, and eliminate unnecessary or underutilized business systems for the Naval Enterprise.</p> <p>- Provide engineering evaluation and validation of programs and ensure adherence to technical standards in the following technical domains- communications, networks, Information Storage and Retrieval/Information Surveillance Reconnaissance/</p>			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<p>Information Operations, afloat platforms (both large and small decks), submarines, shore and Maintenance Operations Center capability, command and control, and space systems.</p> <p>-Continue to conduct Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Certifications through design and testing analysis ensuring C4ISR delivery to the platform (shore, surface ship, submarine) is validated to meet the operational need and is interoperable with platform, force level, joint/allied/coalition forces.</p> <p>FY 2013 Plans:</p> <p>-Continue Navy C4ISR and Information Dominance Transformation/Strategic Planning within Navy/Joint/Department of Defense Framework: Assess existing and emerging capabilities; develop and evaluate Navy-wide policies, plans, requirements, and compliance; develop integration and investment strategies; and accelerate innovation, testing, assessment and fielding of material and non-material solutions for enhanced operational capability, joint/allied/coalition interoperability and application/enforcement of enterprise requirements/architectures/standards toward greater Net-Centric Operations/Warfare and Information Dominance capability.</p> <p>-Continue to establish, develop, and validate interoperability requirements: Perform Systems Engineering Technical Reviews (SETRs) utilizing validated assessment tools, system engineering methodologies and SETR checklists tracing system design to standards and requirements (e.g., Information Assurance (IA), data strategy, architecture, modeling, Open Architecture, Configuration Management, Service Oriented Architectures development, Anti-tamper, etc) ensuring interoperability compliance to statutory and regulatory directives and guidance. Ensure continuous improvement of SETR Checklists by incorporating the latest policy, guidance, standards, and specifications.</p> <p>-Perform System of Systems and platform technical evaluations to integrate the alignment with the N2/N6 Information Dominance vision and identify performance and operational risks associated with the integration of multiple systems to provide a robust, mission based capability.</p> <p>-Continue to conduct document reviews (of Systems Engineering Plans, Information Support Plans, Interoperability Control Document/Competitive Design Development/Consolidated Programming Document, IA Strategies, Acquisition Strategies, etc.) for Office of the Chief of Naval Operations, Assistant Secretary of the Navy for Research, Development and Acquisition, and the Program Executive Offices, and other services to ensure sound systems engineering analysis and design principles have been applied to system planning requirements, design, testing, and supportability.</p> <p>-Continue to perform engineering evaluation and provide buy/no-buy decisions for proposed Deviations from Specification for afloat platforms to determine performance and operational impacts of the proposed change and their effects on the platforms mission.</p> <p>-Continue to provide engineering evaluation and validation of Business Information Technology (IT) applications and IT infrastructure in order to combine, consolidate, and eliminate unnecessary or underutilized business systems for the Naval enterprise.</p>			

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2144: <i>Space & Elec Warfare Engineering</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<p>-Continue to provide engineering evaluation and validation of programs and ensure adherence to technical standards in the following technical domains- communications, networks, Information Storage and Retrieval/Information Surveillance Reconnaissance/Information Operations, afloat platforms (both large and small decks), submarines, shore and Maintenance Operations Center capability, command and control, and space systems.</p> <p>-Continue to conduct Command, Control, Communications, Computers, Intelligence (C4I) Certifications through design and testing analysis ensuring C4I delivery to the platform (shore, surface ship, submarine) is validated to meet the operational need and is interoperable with platform, force level, joint/allied/coalition forces.</p>			
<p>Title: COALITION WARRIOR INTEROPERABILITY DEMONSTRATION (CWID)</p> <p align="right">Articles:</p>		1.640 0	1.535 0
<p>FY 2011 Accomplishments:</p> <p>-Demonstrated cutting-edge industry and government technologies and transitioned them to the end-user, including Non-Governmental Organizations, coalition partners, and the joint services.</p> <p>-Provided interoperability between existing and cutting-edge Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems. End-users benefitted from specific C4ISR information, not previously possessed in its pre-fused and uncorrelated state, but nonetheless required to complete their various missions. This newly-interoperable fused information was critical in supporting tactical and strategic decision making and operational execution, directly impacting the outcome of ongoing global conflicts.</p> <p>-Integrated directly with Program Executive Office Command, Control, Communications, Computers, Intelligence (C4I) and the combatant commanders at the Technical Director, Acquisition Program Manager, and Science Advisor levels, and the State and Federal First Responder Agencies at all levels.</p> <p>-Commenced with technology selection, experimental objective design, and experiment execution to influence and direct design efforts, focused on satisfying war fighter capability gaps. Year-round connectivity was maintained with end-users, vetting capability requirements and ongoing technology efforts relevant to each organization.</p> <p>-Experiment results were directly integrated into developmental design and engineering efforts of individual technologies to accelerate the delivery of needed capability based on Joint Urgent Operational Need Statements (JUONs).</p> <p>-Utilized operationally-relevant classified laboratory environments for joint and coalition war fighter technology experiments, while real-world field environments were utilized for technologies related to Humanitarian Assistance Disaster Relief, Homeland Security, and Homeland Defense.</p>			
<p>FY 2012 Plans:</p> <p>-Continue to demonstrate cutting-edge industry and government technologies and transition them to the end-user, including Non-Governmental Organizations (NGOs), coalition partners, and the joint services.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support	PROJECT 2144: Space & Elec Warfare Engineering		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
<p>-Continue to provide interoperability between existing and cutting-edge Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems. Continue to integrate directly with Program Executive Office C4I and the combatant commanders at the Technical Director, Acquisition Program Manager, and Science Advisor levels, and the State and Federal First Responder Agencies at all levels.</p> <p>-Continue with technology selection, experimental objective design, and experiment execution to influence and direct design efforts, to satisfy some war fighter capability gaps. Year-round connectivity will be maintained with end-users, vetting capability requirements and ongoing technology efforts relevant to each organization.</p> <p>-Experiment results will continue to be directly integrated into developmental design and engineering efforts of individual technologies to accelerate the delivery of needed capability based on JUONs.</p> <p>-Utilize operationally-relevant classified laboratory environments for joint/ coalition war fighter technology experiments, while real-world field environments will be utilized for technologies related to Humanitarian Assistance Disaster Relief, Homeland Security, and Homeland Defense.</p> <p>FY 2013 Plans:</p> <p>-Develop coalition and interagency interoperability and information sharing through coalition engagement, technology, demonstrations, and assessments leading to improvements of C4ISR systems within the Navy and in conjunction with Joint Services and Coalition efforts.</p> <p>-Demonstrate cutting-edge industry and government technologies and transition them to the end-user, including NGOs, coalition partners, and the joint services.</p> <p>-Continue to provide interoperability between existing and cutting-edge C4ISR systems. Integrate directly with Navy Program Managers (i.e. Program Executive Office Command, Control, Communications, Computers, Intelligence and the combatant commanders at the Technical Director, Acquisition Program Manager, and Science Advisor levels, and the State and Federal First Responder Agencies at all levels.</p> <p>-Validate technology selection, experimental objective design, and experiment execution to influence and direct design efforts, to satisfy some warfighter capability gaps. Year-round connectivity will be maintained with end-users, vetting capability requirements and ongoing technology efforts relevant to each organization.</p> <p>-Experiment results will continue to be directly integrated into developmental design and engineering efforts of individual technologies to accelerate the delivery of needed capability based on Joint Urgent Operational Needs.</p> <p>-Establish operationally relevant classified laboratory environments for joint/coalition war fighter technology experiments, while real-world field environments will be created for emergent naval technologies related to Humanitarian Assistance Disaster Relief, Homeland Security, and Homeland Defense.</p>				
Title: SYSTEMS ENGINEERING AND INTEGRATION REVITALIZATION		1.090	1.226	1.193
Articles:		0	0	0

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support	PROJECT 2144: Space & Elec Warfare Engineering		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
FY 2011 Accomplishments: - Implemented system engineering capability recommendations. - Provided increased access to systems engineering training resources. FY 2012 Plans: - Continue to implement system engineering capability recommendations. - Continue to provide increased access to systems engineering training resources. FY 2013 Plans: -Begin transition of system engineering capability into a System of Systems (SoS) engineering view. -Implement SoS integration certification in support of platform level design. -Develop and conduct pilot SoS engineering development training.				
Title: SYSTEMS ENGINEERING STANDARDS AND PROCESSES Articles:		2.805 0	3.153 0	3.066 0
FY 2011 Accomplishments: -Defined the interfaces between program office systems engineering and enterprise systems engineering and optimized the total value of systems engineering in product delivery. -Developed processes to inject systems engineering discipline into the acquisition cycle earlier. -Incorporated lessons learned from recent and emerging program issues. FY 2012 Plans: -Continue to define and implement technical authority for the interfaces between program office systems engineering and enterprise systems engineering and optimize the total value of systems engineering in product delivery. -Continue to develop processes to inject systems engineering discipline into the acquisition cycle earlier. -Continue to incorporate lessons learned from recent and emerging program issues. FY 2013 Plans: -Develop processes to integrate System of Systems engineering technical assessments to identify cross system dependencies. -Incorporate lessons learned from prior year system engineering efforts to ensure multi-systems processes are intuitive and meet the mission of the Navy.				
Accomplishments/Planned Programs Subtotals		9.864	9.245	9.085
C. Other Program Funding Summary (\$ in Millions) N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2144: <i>Space & Elec Warfare Engineering</i>
<u>D. Acquisition Strategy</u> Space and Electronic Warfare (SEW) Engineering is a non-acquisition program that develops, tests, implements technical authority, and validates naval Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR); provides integrated architecture products and supports C4ISR systems engineering processes and standards.		
<u>E. Performance Metrics</u> In FY12 and FY13, the SEW engineering program will employ rigorous and consistent system engineering practices to support development and deployment of shipboard, undersea, and land based capabilities based on mission and performance requirements, integrated enterprise architectures, model-validated solutions, and sustainment and supportability needs for the Command and Control, Intelligence, Networks, Communications, Space, and Business Information Technology domains. Coalition Warrior Interoperability Demonstration (CWID) Performance Metrics: Three key metrics: (1) Interoperability and compliance with naval, joint, coalition and other non-governmental organization architectures, systems and equipment; (2) Compliance with Defense Information Services Agency, National Security Agency, and other joint and coalition information assurance and security standards; and (3) war fighter utility assessment across the joint and coalition spectrum. Specific metrics validate performance of individual technologies participating in CWID.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0604707N: SEW Architecture/Eng Support				2144: Space & Elec Warfare Engineering					
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	Various:Various	4.554	-		-		-		-	0.000	4.554	
SEW/C4I Technology Integration	Various	Various:Various	12.985	-		-		-		-	0.000	12.985	
MDA Prototype SE Support	Various	Various:Various	17.376	-		-		-		-	0.000	17.376	
Systems Engineering & Integration Revitalization	Various	Various:Various	2.174	-		-		-		-	0.000	2.174	
Systems Engineering & Integration Revitalization	C/CPFF	Unknown:Unknown	-	0.565	Feb 2012	0.550	Feb 2013	-		0.550	Continuing	Continuing	Continuing
Systems Engineering & Integration Revitalization	C/CPFF	METRON:Reston, VA	0.316	-		-		-		-	0.000	0.316	
Systems Engineering & Integration Revitalization	C/CPFF	SAIC:San Diego, CA	0.316	-		-		-		-	0.000	0.316	
Systems Engineering & Integration Revitalization	WR	SSC LANT:Charleston, NC	0.133	0.184	Feb 2012	0.180	Feb 2013	-		0.180	Continuing	Continuing	Continuing
Systems Engineering & Integration Revitalization	WR	SSC PAC:San Diego, CA	0.343	0.461	Feb 2012	0.467	Feb 2013	-		0.467	Continuing	Continuing	Continuing
Systems engineering Standards & Processes	Various	Various:Various	5.588	-		-		-		-	0.000	5.588	
Systems engineering Standards & Processes	C/CPFF	Unknown:Unknown	-	1.454	Feb 2012	1.389	Feb 2013	-		1.389	Continuing	Continuing	Continuing
Systems engineering Standards & Processes	C/CPFF	METRON:Reston, VA	0.813	-		-		-		-	0.000	0.813	
Systems engineering Standards & Processes	C/CPFF	SAIC:San Diego, CA	0.812	-		-		-		-	0.000	0.812	
Systems engineering Standards & Processes	WR	SSC LANT:Charleston, NC	0.342	0.474	Feb 2012	0.462	Feb 2013	-		0.462	Continuing	Continuing	Continuing
Systems engineering Standards & Processes	WR	SSC PAC:San Diego, CA	0.884	1.233	Feb 2012	1.200	Feb 2013	-		1.200	Continuing	Continuing	Continuing
Systems A&E and Validation	Various	Various:Various	13.188	-		-		-		-	0.000	13.188	
Distributed C2 Interoperability Requirement analysis	Various	Various:Various	16.583	-		-		-		-	0.000	16.583	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0604707N: SEW Architecture/Eng Support				2144: Space & Elec Warfare Engineering					
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
C4ISR Architecture and Standards	Various	Various:Various	14.268	-		-		-		-	0.000	14.268	
End-to-End System Engineering and Integrated Design	Various	Various:Various	10.994	-		-		-		-	0.000	10.994	
Info. Repository/Naval Architecture	Various	Various:Various	4.000	-		-		-		-	0.000	4.000	
C4ISR Systems Engineering	Various	Various:Various	5.157	-		-		-		-	0.000	5.157	
C4ISR Systems Engineering	WR	NSWC Dahlgren:Dahlgren, MD	-	0.309	Feb 2012	0.311	Feb 2013	-		0.311	0.000	0.620	
C4ISR Systems Engineering	MIPR	DISA:Pensacola, FL	-	0.088	Feb 2012	0.089	Feb 2013	-		0.089	0.000	0.177	
C4ISR Systems Engineering	C/CPFF	ComGlobal:San Diego, CA	2.200	1.979	Feb 2012	1.993	Feb 2013	-		1.993	Continuing	Continuing	Continuing
C4ISR Systems Engineering	WR	SSC LANT:Charleston, NC	0.440	-		-		-		-	Continuing	Continuing	Continuing
C4ISR Systems Engineering	WR	SSC PAC:San Diego, CA	1.188	0.963	Feb 2012	0.969	Feb 2013	-		0.969	Continuing	Continuing	Continuing
C4ISR Systems Engineering	WR	NAVAIR:Patuxent River, MD	0.088	-		-		-		-	Continuing	Continuing	Continuing
C4ISR Systems Engineering	MIPR	CECOM:Fort Monmouth, NJ	0.264	-		-		-		-	Continuing	Continuing	Continuing
C4ISR Systems Engineering	MIPR	AF:Hill AFB, UT	0.220	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			115.226	7.710		7.610		-		7.610			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEW Eng/CWID	Various	Various:Various	30.171	-		-		-		-	0.000	30.171	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 2144: Space & Elec Warfare Engineering					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SEW Eng/CWID	MIPR	Defense Information Systems Agency:Arlington, VA	0.107	0.067	Apr 2012	0.065	Apr 2013	-		0.065	Continuing	Continuing	Continuing
SEW Eng/CWID	WR	Joint Interoperability Test Command:Fort Huachuca, AZ	0.720	0.595	Mar 2012	0.573	Mar 2013	-		0.573	Continuing	Continuing	Continuing
SEW Eng/CWID	WR	SSC Pacific:San Diego, CA	0.758	0.758	Dec 2011	0.727	Dec 2012	-		0.727	Continuing	Continuing	Continuing
SEW Eng/CWID	MIPR	US Northern Command:Peterson AFB, CO	0.115	0.115	Jan 2012	0.110	Jan 2013	-		0.110	Continuing	Continuing	Continuing
SEW Eng/JRAE	Various	Various:Various	15.978	-		-		-		-	0.000	15.978	
Subtotal			47.849	1.535		1.475		-		1.475			
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACQ Workforce Fund	Various	Various:Various	0.071	-		-		-		-	0.000	0.071	
Subtotal			0.071	-		-		-		-	0.000	0.071	
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			163.146	9.245		9.085		-		9.085			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2144: <i>Space & Elec Warfare Engineering</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2144: <i>Space & Elec Warfare Engineering</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2144				
CWID: Schedule as directed by the Joint Management Office (JMO) during execution year.	1	2011	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0604707N: SEW Architecture/Eng Support				2356: Maritime Concept Generation & Development			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2356: Maritime Concept Generation & Development	-	-	8.323	-	8.323	8.432	9.178	7.800	8.729	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Beginning in FY-13 this project is funded to replace Project 2357 (Maritime Battle Center), and more accurately reflect the current mission of Navy Warfare Development Command (NWDC) experimentation. Funding projected for Project 2357 will be moved to Project 2356.

A. Mission Description and Budget Item Justification

Funds the development of new or improved war fighting capabilities through the Concept Generation and Concept Development (CG/CD) program. The priorities for the CG/CD program are to explore near/far-term technological and non-technological solutions to war fighting gaps across all naval warfare areas. The CG/CD experimentation efforts include planning, systems engineering and integration, execution, data collection, analysis, and assessment requirements for a wide range of experiment venues, such as workshops, seminars, wargames, limited objective experiments, limited technical experiments, and live force events. Where appropriate, CG/CD experimentation will be conducted in a joint, or coalition environment.

Also supports the fleet's experimentation program (Fleet Experimentation - FLEX) by providing planning, systems engineering and integration, execution, data collection, and analysis support to the Mission/Warfare Area Office of Primary Responsibility where appropriate and as available. This support is focused on experimentation contained in the annual Sea Trial Execution Plan.

This program historically does not meet established execution benchmarks. It differs from other Research, Development, Test and Evaluation (RDT&E) programs because it relies upon fleet participation, and thus is scheduled around fleet or staff availability. Because that availability frequently occurs during the spring and summer operational schedules, the overall RDT&E obligation/expenditure rates do not align with OSD practice. As a result, this project's obligation rates do not begin to approach benchmark until the program nears the fiscal year's end while its expenditure rates generally do not approach benchmark until midway through the second year of its appropriation.

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

	FY 2011	FY 2012	FY 2013
Title: New Accomplishment/Planned Program Entry	-	-	8.323
Articles:			0
FY 2013 Plans: Continue all FY 2012 efforts started under Project 2357 and carry forward.			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2356: <i>Maritime Concept Generation & Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Initiate and execute Concept Generation and Concept Development (CG/CD), to include experimentation, as directed by the CNO, the CG/CD Innovation Council, and Commander NWDC.			
Accomplishments/Planned Programs Subtotals		-	8.323
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy There is no acquisition strategy - this is not an acquisition program nor is materiel purchased with this funding. This funding is used to buy people to generate/develop/validate concepts, or to build and analyze the results of experiments focused on improved processes and tactics/techniques/procedures to mitigate identified war fighting gaps. The majority of this funding buys a core group of contractors who provide experiment design, execution and analysis support while the remainder is used to buy specific skill sets that are not part of the core group, and also cover some of the engineering and integration costs associated with certain experiments.			
E. Performance Metrics Maritime Concept Generation and Development: <ul style="list-style-type: none"> - Refine concepts and identify key performance levels necessary for implementation. - Demonstrate feasibility and discriminate among competing concepts and implementation alternatives. - Understand potential military effectiveness and risk. - Evaluate how much of the new capability and attendant force structure is needed. - Learn how to operate the new force and combine it with the legacy force. - Develop recommended Doctrine, Organization, Training, Materiel, Leadership, and Personnel (DOTMLP) changes. - Develop fleet war fighting requirements for submission to the OPNAV Navy Capabilities Development Process (NCDP) to inform Navy acquisition decisions. - Integrate emergent concepts and technologies, leading to rapid introduction of needed war fighting capabilities in the fleet. - Rapidly mature Sea Shield, Sea Strike, Sea Basing, and Info Dominance concepts, technologies, and doctrine. - Focus on near, mid and long term war fighting challenges to realize increased war fighting effectiveness. 			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 2356: Maritime Concept Generation & Development					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Test and Evaluation	MIPR	Defense Technical Information Center:Ft Belvoir VA	-	-		2.000	Oct 2012	-		2.000	Continuing	Continuing	Continuing
System Test and Evaluation	C/FFP	SPAWARSSYSCEN Atlantoic:Charleston SC	-	-		2.195	Jan 2013	-		2.195	Continuing	Continuing	Continuing
System Test and Evaluation	C/FFP	Naval Underwater Warfare Center:Newport RI	-	-		0.500	Mar 2013	-		0.500	Continuing	Continuing	Continuing
System Test and Evaluation	C/FFP	Naval Postgraduate School:Monterey CA	-	-		0.500	May 2013	-		0.500	Continuing	Continuing	Continuing
System Test and Evaluation	C/FFP	Navy Warfare Development Command:Norfolk VA	-	-		1.858	Nov 2012	-		1.858	Continuing	Continuing	Continuing
Subtotal			-	-		7.053		-		7.053			
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	C/FFP	Navy Warfare Development Command:Norfolk VA	-	-		1.270	Oct 2012	-		1.270	Continuing	Continuing	Continuing
Subtotal			-	-		1.270		-		1.270			
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		8.323		-		8.323			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>		PROJECT 2356: <i>Maritime Concept Generation & Development</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 2356																												
Maritime Concept Generation and Development Efforts: Leveraging the Undersea Environment Concept Development																												
Maritime Concept Generation and Development Efforts: Anti Access Area Denial Concept Development																												
Maritime Concept Generation and Development Efforts: Command and Control in a Denied or Degraded Environment Concept Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2356: <i>Maritime Concept Generation & Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2356				
Maritime Concept Generation and Development Efforts: Leveraging the Undersea Environment Concept Development	1	2013	4	2017
Maritime Concept Generation and Development Efforts: Anti Access Area Denial Concept Development	2	2013	4	2017
Maritime Concept Generation and Development Efforts: Command and Control in a Denied or Degraded Environment Concept Development	3	2013	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 2357: Maritime Battle Center			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2357: Maritime Battle Center	21.081	8.848	-	-	-	-	-	-	-	0.000	29.929
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Sea Trial funding has been moved to a new project - 3319 Fleet Experimentation. The funding decrease in FY 2012 is due to realignment of funds to the new project.

A. Mission Description and Budget Item Justification

Funds the development of new or improved war fighting capabilities through the Concept Generation and Concept Development (CG/CD) program. The priorities for the CG/CD program are to explore near-/far-term technological and non-technological solutions to war fighting gaps across all naval warfare areas. The CG/CD experimentation efforts include planning, systems engineering and integration, execution, data collection, analysis, and assessment requirements for a wide range of experiment venues, such as workshops, seminars, wargames, limited objective experiments, limited technical experiments, and live force events. Where appropriate, CG/CD experimentation will be conducted in a joint, or coalition environment.

Also supports the fleet's experimentation program (Sea Trial) by providing planning, systems engineering and integration, execution, data collection, and analysis support to the Sea Trial Operational Agents where appropriate and as available. This support is focused on experimentation contained in the annual Sea Trial Execution Plan.

This program historically does not meet established execution benchmarks. It differs from other Research, Development, Test and Evaluation (RDT&E) programs because it relies upon fleet participation, and thus is scheduled around fleet or staff availability. Because that availability frequently occurs during the spring and summer operational schedules, the overall RDT&E obligation/expenditure rates do not align with OSD practice. As a result, this project's obligation rates do not begin to approach benchmark until the program nears the fiscal year's end while its expenditure rates generally do not approach benchmark until midway through the second year of its appropriation.

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

	FY 2011	FY 2012	FY 2013
Title: FBE ANALYSIS AND CORE SUPPORT	21.081	8.848	-
Articles:	0	0	
Description: Because of the synergistic relationship between Maritime Battle Center experimentation efforts and the fleet's Sea Trial experimentation efforts, funding for both endeavors have been combined under one project, the Maritime Battle Center. The Sea Trial aspect of this project's mission is driven by annual priorities. The priorities are further prioritized and approved by the Sea Trial Executive Steering Group (STESG).			
FY 2011 Accomplishments: - Continued participation in Joint Forces Command (JFCOM) experimentation continuum			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2357: <i>Maritime Battle Center</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<ul style="list-style-type: none"> - Continued Limited Objective Experiments. - Continued CONOPS Development Experiments. - Continued the Sonar/Radar Data Comparison experiment. - Continued the Millimeter Wave Chaff experiment. - Continued the Surface Action Group Modeling experiment. - Continued the Harpoon Seeker Modeling in an Electronic Attack environment experiment. - Continued the Fast Attack Craft/Fast Inshore Attack Craft experiment. - Continued the multi-year series of Littoral Force Protection experiments. - Continued the final spiral of the multi-year series of Tactical Tomahawk 3rd Party Targeting experiments. - Continued the multi-year series of Surface Ship Periscope Detection experiments. - Continued the multi-year series of Submarine Unmanned Aerial System experiments. - Continued the multi-year series of Submarine Communications at Speed and Depth experiments. - Continued the multi-year series of Mine Countermeasures in Support of Homeland Defense experiments. - Continued the multi-year series of Littoral Combat Ship Mine Warfare Mission Modules experiments. - Continued the multi-year series of SPIKE experiments. - Continued the Sonar Active Target Evaluation experiment. - Continued the multi-year series of Project Guillotine experiments. - Continued the multi-year series of Submarine/Unmanned Underwater Vehicle Communications experiments. - Initiated and executed Sea Trial Experiments, War Games, and Seminars based on the Execution Plan 11, currently being developed. - Initiated and executed experiments in support of the CNO-directed Concept Generation and Concept Development effort. <p>FY 2012 Plans:</p> <ul style="list-style-type: none"> - Continue all FY 2011 efforts. - Initiate and execute Sea Trial Experiments, War Games, and Seminars based on the Execution Plan 12. 			
Accomplishments/Planned Programs Subtotals		21.081	8.848
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy There is no acquisition strategy - this is not an acquisition program nor is materiel purchased with this funding. This funding is used to buy people to generate/develop/validate concepts, or to build and analyze the results of experiments focused on improved processes and tactics/techniques/procedures to mitigate identified war			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2357: <i>Maritime Battle Center</i>
fighting gaps. The majority of this funding buys a core group of contractors who provide experiment design, execution and analysis support while the remainder is used to buy specific skill sets that are not part of the core group, and also cover some of the engineering and integration costs associated with certain experiments.		
<u>E. Performance Metrics</u> Maritime Battle Center: <ul style="list-style-type: none">- Refine concepts and identify key performance levels necessary for implementation.- Demonstrate feasibility and discriminate among competing concepts and implementation alternatives.- Understand potential military effectiveness and risk.- Evaluate how much of the new capability and attendant force structure is needed.- Learn how to operate the new force and combine it with the legacy force.- Develop recommended Doctrine, Organization, Training, Materiel, Leadership, and Personnel (DOTMLP) changes.- Develop fleet war fighting requirements for submission to the OPNAV Navy Capabilities Development Process (NCDP) to inform Navy acquisition decisions.- Integrate emergent concepts and technologies, leading to rapid introduction of needed war fighting capabilities in the fleet.- Rapidly mature Sea Shield, Sea Strike, Sea Basing, and FORCEnet concepts, technologies, and doctrine.- Focus on near, mid and long term war fighting challenges to realize increased war fighting effectiveness.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0604707N: SEW Architecture/Eng Support				2357: Maritime Battle Center					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Test and Evaluation	MIPR	Defense Technical Information Center:Ft Belvoir VA	248.277	-		-		-		-	0.000	248.277	248.277
System Test and Evaluation	C/FFP	NAVSEA:Washington DC	2.000	-		-		-		-	0.000	2.000	2.000
System Test and Evaluation	C/FFP	SPAWAR:San Diego CA	2.000	2.012	Jan 2012	-		-		-	0.000	4.012	4.012
System Test and Evaluation	C/FFP	SPAWARSYSCEN Atlantic:Charleston SC	3.500	2.500	Mar 2012	-		-		-	0.000	6.000	6.000
System Test and Evaluation	C/FFP	SPAWARSYSCEN Pacific:San Diego CA	2.000	-		-		-		-	0.000	2.000	2.000
System Test and Evaluation	C/FFP	Naval Underwater Warfare Center:Newport RI	1.000	-		-		-		-	0.000	1.000	1.000
System Test and Evaluation	C/FFP	Naval Surface Warfare Center:CA, IN, MD, VA	1.500	-		-		-		-	0.000	1.500	1.500
System Test and Evaluation	C/FFP	Naval Postgraduate School:Monterey CA	2.000	-		-		-		-	0.000	2.000	2.000
System Test and Evaluation	C/FFP	Navy Warfare Development Command:Norfolk VA	3.882	3.000	Jan 2012	-		-		-	0.000	6.882	6.882
Subtotal			266.159	7.512		-		-		-	0.000	273.671	273.671
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	C/FFP	Navy Warfare Development Command:Norfolk VA	51.063	1.336	Jan 2012	-		-		-	0.000	52.399	52.428
Program Management	C/FFP	Naval Postgraduate School:Monterey CA	1.000	-		-		-		-	0.000	1.000	1.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 2357: Maritime Battle Center					
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	C/FP	SPAWAR:San Diego CA	1.999	-		-		-		-	0.000	1.999	1.999
ACQ Workforce Fund	Various	Various:Various	0.148	-		-		-		-	0.000	0.148	0.148
Subtotal			54.210	1.336		-		-		-	0.000	55.546	55.575
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			320.369	8.848		-		-		-	0.000	329.217	329.246
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2357: <i>Maritime Battle Center</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 2357: <i>Maritime Battle Center</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Experimentation Efforts</i>				
Navy Continuous Training Environment	1	2011	2	2012
Distributed Netted Systems in the conduct of Anti-Submarine Warfare	1	2011	2	2012
Modeling and simulation of events and wargaming	1	2011	2	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 3319: Fleet Experimentation			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
3319: Fleet Experimentation	-	14.688	13.369	-	13.369	13.793	16.930	15.337	14.136	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note											
Since FY06 the funding for Fleet Experimentation (Sea Trial) has been contained in Project 2357 - Maritime Battle Center. In FY12 Project 2357 has been split with the funding for Navy Warfare Development Command (NWDC) experimentation remaining in 2357 while Fleet Experimentation (Sea Trial) funding has been moved to this new project - 3319 Fleet Experimentation. The funding beginning in FY 2012 is due to that realignment and is a transfer from Project 2357.											
A. Mission Description and Budget Item Justification											
The mission of the Sea Trial (Fleet Experimentation) program is the development of new or improved war fighting capabilities. Sea Trial evaluates and validates emerging Navy concepts, concepts of operations (CONOPS), doctrine and technologies through focused experimentation, rigorous analysis, and assessment and is dedicated to providing solutions to near term (within the Fiscal Year Defense Plan) war fighting gaps. Sea Trial efforts are prioritized by the flag level Sea Trial Executive Steering Group (STESG), approved by Commander, U.S. Fleet Forces, and contained in the Sea Trial annual execution plan.											
Sea Trial conducts experiments that examine both technological and non-technological solutions to war fighting gaps across all naval warfare areas. Sea Trial experiments run the gamut from workshops and seminars to fleet experiments, and involve all facets of experimentation including planning, systems engineering and integration, execution, data collection, analysis, and assessment. While Navy-centric, Sea Trial efforts include joint and coalition partners when appropriate.											
This program historically does not meet established execution benchmarks. Sea Trial experimentation differs from other Research, Development, Test and Evaluation (RDT&E) programs because it is based upon Fleet operational availability vice independently scheduled through war fighting labs. Because Fleet experimentation frequently must occur during the spring and summer operational schedules, the overall RDT&E obligation/expenditure rates do not align with OSD practice. As a result, Sea Trial's obligation rates do not begin to approach benchmark until the program nears the fiscal year's end while its expenditure rates generally do not approach benchmark until midway through the second year of its appropriation.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: Fleet Experimentation								-	14.688	13.369	
									0	0	
Articles:											
FY 2012 Plans:											
- Initiate and complete experiments in support of the CNO-directed Concept Generation and Concept Development program.											
- Initiate and complete experiments tasked by U.S. Fleet Forces in support of Fleet Experimentation.											
FY 2013 Plans:											
- Initiate and complete experiments in support of the CNO-directed Concept Generation and Concept Development program.											

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 3319: <i>Fleet Experimentation</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
- Initiate and complete experiments tasked by U.S. Fleet Forces in support of Fleet Experimentation			
Accomplishments/Planned Programs Subtotals		-	14.688
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy There is no acquisition strategy - this is not an acquisition program nor is materiel purchased with this funding. This funding is used for between 30 and 40 experimental initiatives annually, focused on addressing fleet identified capability gaps, and primarily buys the people to design and execute the experiments and analyze the results.			
E. Performance Metrics Fleet Experimentation: <ul style="list-style-type: none"> - Refine concepts and identify key performance levels necessary for implementation. - Demonstrate feasibility and discriminate among competing concepts and implementation alternatives. - Understand potential military effectiveness and risk. - Evaluate how much of the new capability and attendant force structure is needed. - Learn how to operate the new force and combine it with the legacy force. - Develop recommended Doctrine, Organization, Training, Materiel, Leadership, and Personnel (DOTMLP) changes. - Develop fleet war fighting requirements for submission to the OPNAV Navy Capabilities Development Process (NCDP) to inform Navy acquisition decisions. - Integrate emergent concepts and technologies, leading to rapid introduction of needed war fighting capabilities in the fleet. - Rapidly mature Sea Shield, Sea Strike, Sea Basing, and FORCEnet concepts, technologies, and doctrine. 			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0604707N: SEW Architecture/Eng Support				PROJECT 3319: Fleet Experimentation					
Test and Evaluation (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Systems Test and Evaluation	MIPR	Defense Technical Information Center:Ft Belvoir VA	-	1.000	Jan 2012	1.350	Oct 2012	-		1.350	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	NAVSEA:Washington DC	-	2.000	Jun 2012	0.600	Jun 2013	-		0.600	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	SPAWAR:San Diego CA	-	1.838	Mar 2012	2.000	Oct 2012	-		2.000	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	SPAWARSYSCEN Atlantic:Charleston SC	-	1.823	Mar 2012	1.250	Jan 2013	-		1.250	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	SPAWARSYSCEN Pacific:San Diego CA	-	2.300	Mar 2012	2.200	Oct 2012	-		2.200	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	Naval Underwater Warfare Center:Newport RI	-	0.500	Jan 2012	0.750	Nov 2012	-		0.750	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	Naval Surface Warfare Center:CA, IN, MD, VA	-	1.000	Jun 2012	1.401	Mar 2013	-		1.401	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	Naval Postgraduate School:Monterey CA	-	1.500	Jun 2012	1.400	Jan 2013	-		1.400	Continuing	Continuing	Continuing	
Systems Test and Evaluation	C/FFP	Navy Warfare Development Command:Norfolk VA	-	0.500	Mar 2012	0.358	Mar 2013	-		0.358	Continuing	Continuing	Continuing	
Subtotal			-	12.461		11.309		-		11.309				
Management Services (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management	C/FFP	SPAWAR:San Diego CA	-	1.527	Jan 2012	0.810	Dec 2012	-		0.810	Continuing	Continuing	Continuing	
Program Management	C/FFP	Naval Postgraduate School:Monterey CA	-	0.700	Jun 2012	0.750	Nov 2012	-		0.750	Continuing	Continuing	Continuing	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>				PROJECT 3319: <i>Fleet Experimentation</i>						

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	C/FFP	U.S. Fleet Forces Command:Norfolk VA	-	-		0.500	Oct 2012	-		0.500	0.000	0.500	
Subtotal			-	2.227		2.060		-		2.060			

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	14.688		13.369		-		13.369			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>		PROJECT 3319: <i>Fleet Experimentation</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<i>Fleet Experimentation Efforts</i>																												
Trident Warrior and Info Dominance experiments																												
Anti-Submarine Warfare experiments																												
Maritime Laser Weapons experiments																												
Integrated Air and Missile Defense experiments																												
Command and Control experiments																												
Unmanned Systems experiments																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604707N: <i>SEW Architecture/Eng Support</i>	PROJECT 3319: <i>Fleet Experimentation</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Fleet Experimentation Efforts</i>				
Trident Warrior and Info Dominance experiments	2	2012	4	2017
Anti-Submarine Warfare experiments	3	2012	4	2017
Maritime Laser Weapons experiments	2	2012	4	2017
Integrated Air and Missile Defense experiments	1	2012	4	2017
Command and Control experiments	2	2012	4	2017
Unmanned Systems experiments	1	2012	4	2017