Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603582N: Combat System Integration

BA 4: Advanced Component Development & Prototypes (ACD&P)

·	-	7	(/									
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	280.954	48.999	56.551	36.570	-	36.570	41.949	44.351	48.417	49.760	Continuing C	Continuing
0164: Combat System Integration	280.954	35.989	41.854	18.040	-	18.040	24.347	26.975	30.621	33.345	Continuing (Continuing
3312: MTMD-Maritime Theater Missile Defense Forum	0.000	3.135	4.561	8.525	-	8.525	9.478	9.140	9.385	7.863	Continuing (Continuing
9B88: Automated Test and Re- Test	0.000	9.875	10.136	10.005	-	10.005	8.124	8.236	8.411	8.552	Continuing (Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Chief of Naval Operations (CNO) created the Navy's Strike Force Interoperability (SFI) Program in 1998 in response to critical shortfalls in the introduction of integrated and interoperable system of systems to deploying Strike Forces. Naval Sea Systems Command (NAVSEA) acts as management lead for Joint System Command (SYSCOM) system certification policy and guidance and certifies platforms for interoperability within the platform and throughout the enterprise, in accordance with Commander, US Fleet Forces Command/Commander, Pacific Fleet (COMUSFLTFORCOM/COMPACFLT) Inst. 4720.3B (OCT 2008), C5ISR Modernization Policy. COMUSFLTFORCOM/COMPACFLT Inst. 4720.3B also requires that NAVSEA act as administrative agent for COMNAVNETWARCOM Command and Control, Communications, Computers, and Combat Systems Integration Modernization Process (C5IMP) and execution agent for Navy Command and Control, Communications, Computers, and Combat Systems Integration (C5I) Modernization Conferences (NCMC). This program conducts Interoperability Assessments that are required to certify Aircraft Carriers, Amphibious Assault Ships, and Surface Combatants in accordance with the Naval Warfare System Certification Policy (NWSCP), NAVSEAINST 9410.2A, NAVAIR 5230.20, SPAWAR 5234.1.

The SFI Program ensures overall strike force interoperability is characterized and assessed. NAVSEA is assigned central United States Navy (USN) responsibility for interoperability, directing the development of policy and architecture for Strike Force warfare systems engineering and implementation of a common warfare systems engineering process. There are three priorities within the Strike Force Interoperability Program: 1) Support Fleet As-Is state which includes Navigation System Certification (NAVCERT), Interoperability Capabilities & Limitations, and Interoperability Tactical Information Coordinator Technical Aids (TIC TECHAIDs); 2) Ship system modernization (non-HME) including warfighting capability & other C5I upgrades. This includes C5IMP Baseline Management and Non-Aegis Combat System Integration Testing; and 3) Ship Warfare System Certification & Force Level Assessments. This includes Warfare Systems Certification, Interoperability Certification, Force Level Interoperability Analysis, Assessments, and reports recommending force level interoperability improvements to the program offices for implementation at the systems level.

In addition to these core efforts, this program also aims to improve the efficiency of testing processes through the Automated Test and Re-test (ATRT) program and engages in efforts designed to ensure the U.S. Navy is interoperable with Joint and Coalition forces through the Maritime Theater Missile Defense (MTMD).

PE 0603582N: Combat System Integration

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration

Project 0164 Combat System Integration:

This project consist of five key pillars executed within the SFI program, beginning in FY13: 1) Command & Control, Communications, Computer, Combat Systems, and Intelligence Modernization Process (C5IMP) and Fleet Readiness. The C5IMP validates the introduction of new systems into the Fleet and ensures system maturity prior to installation, thereby reducing risk and enhancing readiness and effectiveness of deploying ships and strike groups; 2) Warfare Systems Certification, which is essential to validating the maturity and operational performance of warfare systems prior to fleet delivery and deployment; 3) Navigation Certification (NAVCERT) and Electronic Charting and Display System - Navy (ECDIS-N) certification, which certifies ship electronic charting capability and certifies the accurate transmission of navigation data to combat and weapons systems; 4) Combat Systems Integration Testing (CSIT), formerly known as Warfare Systems Integration and Interoperability Testing (WSI2T), which is essential in the identification of critical integration and interoperability issues. CSIT also provides Objective Quality Evidence (OQE) for warfare system certification decisions for installation and deployment; and 5) Interoperability Certification and Assessment, the independent assessment of Strike Group Warfare Systems operational performance. Interoperability Assessments examine force level engagement threads, aircraft control, air battle-space management, and operational displays. Assessments of deploying ships in Strike Force configurations are accomplished through the utilization of the Navy's Distributed Engineering Plant (DEP), which is the cornerstone for the Distributed Integration & Interoperability Assessment Capability (DIIAC) Concept. It is a U.S. Fleet Forces Command and Commander In Chief, U.S Pacific Fleet (COMPACFLT) requirement that all Strike Forces undergo Interoperability Assessment testing in the DEP prior to deployment. Interoperability Certification results are used to develop fleet tactical tools

Project 3312 Maritime Theater Missile Defense Forum (MTMD):

This project funds participation in the Maritime Missile Defense Projects Framework Memorandum of Understanding of 2004 (as amended in 2009). Known as the Maritime Theater Missile Defense (MTMD) forum, it promotes interoperability with the Navies of nine participating nations. This project funds participation in several Project Arrangements and includes maritime contribution to the NATO Active Layered Theater Ballistic Missile Defense (ALTBMD) project.

The MTMD forum provides protection against the proliferation of short, medium and long-range Ballistic Missile (BM) and Advanced Anti-Ship Cruise Missile (ASCM) threats through the creation of an interoperable sea-based Integrated Air and Missile Defense (IAMD) capability among coalition nations. This includes protection across the full spectrum of these threats through the enhanced utilization of existing sea-based systems to protect against current threats while progressively improving and developing systems and system-of- systems to effectively counter evolving threats.

MTMD supports USN participation in several MTMD related Project Arrangements and Working Groups including:

- (1) Battle Management Command, Control, Communications, Computers, and Intelligence (BMC4I) to define and develop architectures as well as to perform engineering to address coalition capability gaps.
- (2) Modeling & Simulation (M&S) to establish and maintain a maritime coalition M&S testbed and to perform legacy and future systems simulation testing.
- (3) Coalition Distributed Engineering Plant (CDEP) to establish and maintain a maritime coalition Hardware-in-the-Loop Testbed and to conduct CDEP testing.
- (4) Open Architecture (OA) to develop Interface Standards and Data Models.

PE 0603582N: Combat System Integration

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603582N: Combat System Integration

BA 4: Advanced Component Development & Prototypes (ACD&P)

- (5) Test Planning and Execution (TPEX) to develop Test Plans, oversee exercise participation and conduct post event data analysis and reporting.
- (6) Operational Requirements (OR) to develop a Coalition Maritime Missile Defense Operational Concept Document and to identify operational constraints and tactical constructs surrounding coalition maritime missile defense activities.
- (7) Next Generation Infrared Search and Track (IRST) to evaluate commercial-based technologies to develop a passive IRST sensor system in support of coalition maritime missile defense operations.

Project 9B88 Automated Test and Retest (ATRT):

The Navy, through Automated Test and Re-Test (ATRT) is developing an automated test/analysis capability, which is applicable at phases within system development and integration which provides reproducible and quantitative evaluation of system performance with reduced levels of effort and schedule in order to support one of the Navy's priority initiatives of reduction of Total Ownership Cost (TOC). Funding will provide additional work towards ongoing testing and analysis efforts within the Combat Systems Integration Testing (CSIT), formerly known as Warfare Systems Integration and Interoperability Testing (WSI2T), AEGIS Combat System Advanced Capability Build (ACB) 12, Antisubmarine Warfare Integrated Common Processor/Acoustic Rapid Commercial Off The Shelf (COTS) Insertion, the Littoral Combat Ship (LCS) Mission Module development and other major acquisition programs. In addition, funding will support the development of standards, specifications, and guidance to facilitate NAVSEA-affiliated programs' adoption of this TOC-reducing discipline and technology.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	34.123	56.551	36.592	-	36.592
Current President's Budget	48.999	56.551	36.570	-	36.570
Total Adjustments	14.876	0.000	-0.022	-	-0.022
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	15.536	0.000			
SBIR/STTR Transfer	-0.660	0.000			
Program Adjustments	0.000	0.000	0.290	-	0.290
Rate/Misc Adjustments	0.000	0.000	-0.312	-	-0.312

PE 0603582N: Combat System Integration

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

DATE: April 2013

R-1 ITEM NOMENCLATURE

PE 0603582N: Combat System Integration

0164: Combat System Integration

COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total
(4	Years	FY 2012	FY 2013 [#]	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Cost
0164: Combat System Integration	280.954	35.989	41.854	18.040	-	18.040	24.347	26.975	30.621	33.345	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Project 0164: Combat System Integration:

This project funds the Strike Force Interoperability Program through the following pillars: 1) Command & Control, Communications, Computer, Combat Systems, and Intelligence Modernization Process (C5IMP) and Fleet Readiness. The C5IMP validates the introduction of new systems into the Fleet and ensures system maturity prior to installation, thereby reducing risk and enhancing readiness and effectiveness of deploying ships and strike groups; 2) Warfare Systems Certification, which is essential to validating the maturity and operational performance of warfare systems prior to fleet delivery and deployment; 3) Navigation Certification (NAVCERT) and Electronic Charting and Display System - Navy (ECDIS-N) certification, which certifies ship electronic charting capability and certifies the accurate transmission of navigation data to combat and weapons systems; 4) Combat Systems Integration Testing (CSIT), formerly known as Warfare Systems Integration and Interoperability Testing (WSI2T), which is essential in the identification of critical integration and interoperability issues. CSIT also provides Objective Quality Evidence (OQE) for warfare system certification decisions for installation and deployment; and 5) Interoperability Certification and Assessment, the independent assessment of Strike Group Warfare Systems operational performance. Interoperability Assessments examine force level engagement threads, aircraft control, air battle-space management, and operational displays. Assessments of deploying ships in Strike Force configurations are accomplished through the utilization of the Navy's Distributed Engineering Plant (DEP), which is the cornerstone for the Distributed Integration & Interoperability Assessment Capability (DIIAC) Concept. It is a U.S. Fleet Forces Command and Commander In Chief, U.S Pacific Fleet (COMPACFLT) requirement that all Strike Forces undergo Interoperability Assessment testing in the DEP prior to deployment. Interoperability Certification results are used to develop fleet tactical tools

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Navigation System Certification (NAVCERT)	0.616	1.762	1.252
Articles:	0	0	0
Description: NAVSEAINST 9420.4 dated May 02 requires that a Navigation System Certification (NAVCERT) be performed for all initial installation/new construction, major overhaul/modification/repair when it is determined to impact the accuracy of navigation data, changes to the navigation baseline configuration, greater than six months ship availability, or elapsed time of more than five (5) years since previous NAVCERT. These project funds assessments are in support of NAVCERT associated with modernizations and/or new capability upgrades. A			

PE 0603582N: Combat System Integration

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0603582N: Combat System Integration	0164: Comb	oat Sysi	tem Integratio	on
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantiti	es in Each)	FY	2012	FY 2013	FY 2014
NAVCERT certifies to NAVSEA, Ship Program Managers (SPMs), Type Conavigation systems are: properly installed and in good physical condition, of A NAVCERT certifies: (1) Ship electronic charting display capability ensuring navigation data to combat and weapons systems ensuring ordnance is deliwhich is critical for returning aircraft. A successful NAVCERT is required for TOMAHAWK Weapons System (TTWCS) Certifications, Precision Approach Electronic Charting and Display System-Navy (ECDIS-N) Certification.	operating to specified accuracy and requirements. ing safety at sea. (2) Accurate transmission of ivered on target. (3) Aircraft inertial alignment sys or Warfare Systems Certification Decisions (WSCI	tem			
FY 2012 Accomplishments: Performed 28 NAVCERTs on cruisers, destroyers, carriers, and amphibs.					
FY 2013 Plans: Plans are to perform 24 NAVCERTs on cruisers, destroyers, carriers, and a Task Force. Initiate update of NAVSEA Instruction 9420.4A to incorporate		tion			
FY 2014 Plans: Plans are to perform 18 NAVCERTs on cruisers, destroyers, carriers, and a Task Force. Issue update of NAVSEA Instruction 9420.4A.	amphibs based on the finding of the Flag Certifica	tion			
Title: Command, Control, Communications, Computer, Combat Systems, a Fleet Readiness (C5ISR)		ind	3.749 0	2.420 0	1.842 0
Description: This program is required to support the fleet C5I Modernization Inst. 4720.3B), perform engineering analysis for the introduction of each prochange), develop installation recommendations of C5I system upgrades for installation or operating problems. This is done through close coordination members of the C5IMP community to address, coordinate, and resolve C5 enhancing readiness and effectiveness of deploying ships and strike group	oposed C5IMP capability improvement (Baseline or the Fleet Commanders, and research and analy with the FLTCDRs and TYCOMs as well as other IMP modernization issues thereby reducing risk at	ze ·			
Strike Group Engineers (SGEs) analyze planned C5I configurations of ship interoperability, and modernization issues in a Strike Group context; asses recommendations for resolution.		ity,			
Funded under Fleet Response Plan (FRP) in prior years.					

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE:	April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603582N: Combat System Integration	PROJECT 0164: Con	IECT Combat System Integration				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quan	<u>tities in Each)</u>	FY	2012	FY 2013	FY 2014		
FY 2012 Accomplishments: This program is required to support the fleet C5I Modernization Policy (perform engineering analysis for the introduction of each proposed C5IN installation recommendations of C5I system upgrades for the Fleet Compoperating problems. This is done through close coordination with the FL the C5IMP community to address, coordinate, and resolve C5IMP modereadiness and effectiveness of deploying ships and strike groups. Strike configurations of ships and Strike Groups; identify and analyze capabiliting Group context; assess impacts against requirements; and provide recommunity.	MP capability improvement (Baseline Change), development, and research and analyze installation or LTCDRs and TYCOMs as well as other members of ernization issues thereby reducing risk and enhancing a Group Engineers (SGEs) analyze planned C5ly, interoperability, and modernization issues in a Stri	р					
FY 2013 Plans: Provide C5IMP and Strike Group Engineering support for all CSGs, ARC deployment cycle, including preparations for deployment of 6 CSGs, 3 A Facilitate review, assessment, and execution of C5I installations during NCMCs and 12 monthly baselining events. Risk Assessment & Mitigation with the AEGIS Combat System (ACS).	ARGs and about 40 independent deployers during FY approximately 100 CNO availabilities in FY 13. Supp	ort 2					
FY 2014 Plans: Provide C5IMP and Strike Group Engineering support for all CSGs, ARG deployment cycle, including preparations for deployment of 4 CSGs, 3 A Facilitate review, assessment, and execution of C5I installations during NCMCs and 12 monthly baselining events.							
Title: Combat System Integration Testing (CSIT)	Ar	ticles:	2.300	2.560 0	0.000		
Description: This program funds Land-Based Test Sites to conduct intellintegrated Combat Systems at NSWC Dahlgren, VA and at Wallops Isla (ACDS) Block 0/1 and FFG Combat Direction System testing at Combat System Testing (formerly known as SEA05H Warfare Systems Integration the identification of critical combat systems integration issues. CST also certification decisions to support installation and deployment approvals. of the test labs to provide an integrated test environment similar to ships.	egration testing for the Ship Self Defense Mark 1/2 and, VA as well as the Advanced Combat Direction S t Direction Systems Activity Dam Neck, VA. Combat on and Interoperability Testing (WSI2T)), is essential to provides Objective Quality Evidence (OQE) for ward OPN/OMN funds support the maintenance and upground configurations in the Fleet.	ystem in fare					
Funded under Combat Systems Certification Support of Platform Certific	cation in prior years.						

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		JECT 4: Combat Syst	tem Integratio	n
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities)	es in Each)	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Program Combat Systems integration planning/conduct/execution/OQE represented by FFG 7 Class, LHD 7/8, CVN 69, LPD 20/24/25, LPD 17-19 and LPD 21-23 & CVN 73/74.	porting for the following platforms:			
FY 2013 Plans: Program Combat Systems integration planning/conduct/execution/OQE rep 5C (LSD 50/52) & CVN 75/76.	porting for the following platforms: LHD 1, SSDS MOD			
Title: Warfare Systems Certification	Articles	11.798 : 0	14.700 0	5.042 0
Description: As directed by COMUSFLTFORCOM/COMPACFLT Inst. 472 with NAVSEAINST 9410.2, Naval Warfare System Certification Policy (NW Certification against set criteria that includes operational risk assessments, installation readiness and deployment readiness of warfare systems and N testimony of subordinate activities and/or independent testing.	SCP), NAVSEA will conduct Warfare Systems using Objective Quality Evidence (OQE) to ensure			
NAVSEA accomplishes these efforts through Warfare Systems Certification Installation Authorizations (WSIA), and Warfare Systems Certification Decide deployment of warfare systems in Navy surface platforms. The purpose of System Certification Plan (WSCP), monitor warfare systems against the W to facilitate a WSIA and WSCD. The purpose of the WSIA is to provide an warfare systems maturity and readiness to support sail-away and any shiple (NC) phase, Refueling Complex Overhaul (RCOH) or lead ships that are tean assessment to support an authorization for installation of the warfare sy WSCD is to provide warfare systems certification including an assessment maturity and readiness to support deployment. A NAVSEA certification decincludes an operational risk assessment characterizing warfare systems madeployment. This program is also required to ensure that aggregate deficie ineffective by conducting land based interoperability, at-sea interoperability such as trouble reports (TRs). TRs that cannot be resolved are assessed (ICAG) and are documented in Tactics, Techniques & Procedures (TTPs), Tactical Information Coordinator Technical Aids (TIC TECHAIDS).	sions (WSCD) to support the installation and the WSCRR is to review and approve the Warfare SCP and monitor satisfaction of established criteria early assessment of risk and characterization of the board test and training events for New Construction at platforms for major modernization effort and/or stem(s) for in-service platforms. The purpose of the of risk and characterization of the warfare systems cision message is released following the WSCD, which atturity and readiness to support the subject ship's incies and workarounds do not render the operator and stressful endurance test and documenting issues by the Interoperability Certification Assessment Group			

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE	: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603582N: Combat System Integration	PROJECT 0164: Combat Sy	stem Integratio	on
B. Accomplishments/Planned Programs (\$ in Millions, Article Quant	tities in Each)	FY 2012	FY 2013	FY 2014
Warfare Systems Certification funded under Platform/Strike Force Certifi	ication in prior years.			
FY 2012 Accomplishments: Supported 110 certification events, and validated corrections of CEC/LIN DDGs. Platform Certification Decision (PCDs) involved CVNs, CGs, DDG workarounds, limitations & restrictions and conducted 4 AEGIS & 1 SSD impacting ship mission areas. Transitioned to NAVSEAINST 9410.2A.	Gs, and amphibious assault ships. Documented TTP			
FY 2013 Plans: Support approximately 110 Warfare Systems Certification Events (WSCI Certification Decision will involve CG 47, DDG 51/1000, CVN 65/68/78, I Class and amphibious assault ships. Support increase in number of War review of Trouble Reports, Tactics, Techniques, and Procedures (TTP) assessment. Support stressful endurance test results. Develop an Integ data environment, classified to secret level. Conduct Accelerated Mid-Teinteroperability assessment, and conduct two at-sea interoperability tests.	LHA 1/6, LHD 1, LPD 17, LSD 41/49 and LCS Ship rfare System Certification criteria from 17 to 20, requaggregate workload assessment, and mission area grated Product Data Management Tool for a unified erm Interoperability Improvement Project (AMIIP)	iring		
FY 2014 Plans: Support approximately 120 Warfare Systems Certification Events and pil Countermeasure ships.	lot certification efforts for Patrol Coastal and Mine			
Title: Interoperability Certification and Assessment	•	17.52		9.904
			0	0
Description: To ensure NAVSEA/PEOs are delivering mature and interclevel, NAVSEA provides strike force interoperability certification and assiplatforms under development. Interoperability Assessments of deploying through the utilization of the Navy's Distributed Engineering Plant (DEP) combat systems located at multiple Navy land-based sites located across It is a U.S. Fleet Forces Command requirement that all Strike Forces under prior to deployment. The DEP provides the only opportunity for compreh configuration items prior to shipboard delivery for operational use in surfate DEP provides the mechanism to support the surface Navy's participal MTMD Coalition forces interoperability testing. The Distributed Integration leverage the existing DEP (facilities, skilled resources, live assets, and massess battle force interoperability. The results of DEP testing is to feed	nd d val ogy. C5I her, vill			

PE 0603582N: Combat System Integration

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	CT ombat Syst	em Integratio	n	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in I	Each)	FY 2012	FY 2013	FY 2014
Limitations (C&L) and Tactical Information Coordinator Technical Aids (TIC TECH the interoperability capabilities and limitations of their combat systems. C&L are of Joint partners. Program was funded under Platform/Strike Force Certification, Fleward Operations in prior years.				
FY 2012 Accomplishments: Conducted three DEP tests, (ACS 6.3, 7.1R, the 8.1 certification; ACS 5.3.9 and baseline 9A development) and reconstruction with data analyses. Conducted two 8.1; ACS 5.3.9 and SSDS Baseline 6) as determined by Interoperability Certificat Verification, Validation, and Accreditation (VV&A) test and facilitated the completic CNO availabilities in FY 12. Provided C&L documents for 65 Strike Groups comp (covering F/A-18s, E-2Cs, MH-60s, EA-6Bs and P-3s). TIC TECHAIDs will be delivered for 35 SG ships, 30 independent deploying ships	o interoperability assessments, (ACS 6.3, 7.1R, ion Assessment Group (ICAG). Conducted one ion of C5I installations during approximately 100 rised of 237 ships and 110 Naval Air Squadrons			
FY 2013 Plans: Conduct four DEP tests (SSDS 8.07 DEP certifications; AMIIP certification; ACB certification) and reconstruction with data analyses. Conduct three interoperability 9A; ACS 7.2) as determined by Interoperability Certification Assessment Group (Engineering Events (SEEs). Provide C&L documents for 65 Strike Groups comp (covering F/A-18s, E-2Cs, MH-60s, EA-6Bs and P-3s). Conduct analysis of force battle-space management, and operational displays, focusing on deploying Strike development. TIC TECHAIDs will be delivered for 35 SG ships, 30 independent	ty assessments, (AMIIP; ACB 12 ACS baseline ICAG). Conduct two VV&As and two System rised of 237 ships and 110 Naval Air Squadrons level engagement threads, aircraft control, air e Groups and new systems and platforms under			
FY 2014 Plans: Conduct four DEP tests (ACB 12 ACS baseline 9C development; SSDS baseline certification) and reconstruction with data analysis. Conduct three interoperability ACS baseline 9C; LCS) as determined by Interoperability Certification Assessme two System Engineering Events (SEEs). Provide C&L documents for 65 Strike CAir Squadrons (covering F/A-18s, E-2Cs, MH-60s, EA-6Bs and P-3s). TIC TECH, independent deploying ships, and 4 Land Based Sites.	y assessments (SSDS baseline 9; ACB 12 nt Group (ICAG). Conduct two VV&As and Groups comprised of 237 ships and 110 Naval			
A	ccomplishments/Planned Programs Subtotals	35.989	41.854	18.040

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

AFFORMATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration
0164: Combat System Integration

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

Cost To FY 2014 FY 2014 FY 2014 FY 2012 FY 2013 OCO FY 2015 FY 2017 FY 2018 Complete Total Cost Line Item Base Total FY 2016 • OPN 2960: (ICSTD/DEP): 5.321 Continuing Continuing 4.430 4.495 4.963 4.963 5.073 5.141 5.254

Integrated Combat System Test Division/Distributed Engineering

Plant

Navy

Remarks

D. Acquisition Strategy

RDTEN funding under this line supports independent certification of the integration of major capability upgrades acquired by Program Executive Offices (PEOs) into host Navy Platforms and Strike Forces. The RDTEN engineering and certification activities at field sites do not involve direct procurement of equipment or engineering services, and hence no acquisition strategy is required. The major capability upgrades evaluated under this program fall under their associated PEOs' acquisition strategies.

E. Performance Metrics

Quarterly Program Reviews and Baseline Assessments

PE 0603582N: Combat System Integration

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

APPROPRIATION/BUDGET ACTIVITY

PE 0603582N: Combat System Integration

0164: Combat System Integration

DATE: April 2013

BA 4: Advanced Component Development & Prototypes (ACD&P)

Product Developmen	roduct Development (\$ in Millions)			FY 2	2012	FY 2	2013		FY 2014 FY 2014 FY 2014 Base OCO Total						
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
SF Requirements Engineering & Analysis	WR	NSWCs:DN/PHD/ Corona	5.157	0.000		0.000		0.000		-		0.000	0.000	5.157	
SF Requirements Engineering & Analysis	WR	Non-NSWCs:Various	5.295	0.000		0.000		0.000		-		0.000	0.000	5.295	
Platform/Strike Force Certification	WR	NSWCs:DD/ICSTD/ DN/Corona	39.732	0.000		0.000		0.000		-		0.000	0.000	39.732	
Platform/Strike Force Certification	WR	Non-NSWCs:Various	27.843	0.000		0.000		0.000		-		0.000	0.000	27.843	
Fleet Response Plan (FRP)	WR	NSWCs:DD/PHD/DN	27.030	0.000		0.000		0.000		-		0.000	0.000	27.030	
Fleet Response Plan (FRP)	WR	Non-NSWCs:Various	3.793	0.000		0.000		0.000		-		0.000	0.000	3.793	
Combat Systems Cert ISO Platform Cert	WR	NSWCs:DN/DD/ PHD/Corona	24.640	0.000		0.000		0.000		-		0.000	0.000	24.640	
Combat Systems Cert ISO Platform Cert	WR	Non-NSWCs:Various	1.853	0.000		0.000		0.000		-		0.000	0.000	1.853	
Navigation System Certification	WR	SPAWAR:Charleston	4.464	0.616	Dec 2011	1.650	Dec 2012	1.252	Sep 2014	-		1.252	Continuing	Continuing	Continuing
C5IMP & Fleet Readiness	WR	NSWCs:DD/PHD/DN	0.000	3.440	Dec 2011	1.200	Dec 2012	1.190	Sep 2014	-		1.190	Continuing	Continuing	Continuing
C5IMP & Fleet Readiness	WR	Non-NSWCs:Various	0.000	0.000		0.000	Dec 2012	0.000		-		0.000	Continuing	Continuing	Continuing
Warfare Systems Certification	WR	NSWCs:DD//DN/ Corona	0.000	4.154	Dec 2011	12.000	Dec 2012	3.500	Sep 2014	-		3.500	0.000	19.654	
Warfare Systems Certification	WR	NSWCs:Various	0.000	3.000	Dec 2011	0.500	Dec 2012	0.490	Sep 2014	-		0.490	0.000	3.990	
CNI/Design Agent	SS/CPAF	General Dynamics:Not Specified	47.926	0.000		0.000		0.000		-		0.000	0.000	47.926	
CNI/Software Engineering	WR	NSWC:Dahlgren	8.383	0.000		0.000		0.000		-		0.000	0.000	8.383	
CNI/Test and Evaluation	WR	CDSA:Not Specified	3.922	0.000		0.000		0.000		-		0.000	0.000	3.922	
CNI/Systems Engineering	WR	NSWC:PHD	2.645	0.000		0.000		0.000		-		0.000	0.000	2.645	
CNI/Miscellaneous	WR	Various:Various	7.529	0.000		0.000		0.000		-		0.000	0.000	7.529	

PE 0603582N: Combat System Integration Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

APPROPRIATION/BUDGET ACTIVITY

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration

0164: Combat System Integration

DATE: April 2013

Product Development (\$ in Millions)		FY 2	2012	FY :	2013	FY 2 Ba	2014 ise	FY 2		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
OA Automated Test and Retest	WR	NSWCs:Various	17.500	0.000		0.000		0.000		-		0.000	0.000	17.500	
Contract Engineering Support	C/CPFF	Gryphon Technology:VA	12.259	4.778	Dec 2011	7.604	Dec 2012	3.500	Sep 2014	-		3.500	Continuing	Continuing	Continuing
Contract Program Management Support	C/CPFF	Delta Resources Inc.:VA	8.141	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Travel	Allot	NAVSEA HQ:Washington, DC	1.590	0.300	Dec 2011	0.400	Dec 2012	0.100	Sep 2014	-		0.100	Continuing	Continuing	Continuing
Interoperability Fixes	WR	NSWCs:Various	1.500	0.000		0.000		0.000		-		0.000	0.000	1.500	
		Subtotal	251.202	16.288		23.354		10.032		0.000		10.032			

Test and Evaluation (\$ in Millions)			FY	2012	FY 2	2013		2014 ise	FY 2		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Combat System Integration Testing (CSIT)	WR	NSWCs:DD/ICSTF	0.000	3.475	Dec 2011	2.500	Dec 2012	0.000		-		0.000	0.000	5.975	
Interoperability Certification Assessment	WR	NSWCs:DD/ SPAWAR/San Diego	0.000	16.226	Dec 2011	16.000	Dec 2012	8.008	Sep 2014	-		8.008	0.000	40.234	
DEP Engineering and Operations	WR	NSWCs:DD/ SPAWAR/San	17.129	0.000	Dec 2011	0.000		0.000		-		0.000	0.000	17.129	
DEP Engineering and Operations	WR	NSWCs:Various	12.623	0.000	Dec 2011	0.000		0.000		-		0.000	0.000	12.623	
		Subtotal	29.752	19.701		18.500		8.008		0.000		8.008	0.000	75.961	

	Subtotal	29.752	19.701	18.500	8.008	0.000	8.008	0.000	75.961	
	-									
									l	Target
		All Prior			FY 2014	FY 2014	FY 2014	Cost To	Total	Value of
		Years	FY 2012	FY 2013	Base	oco	Total	Complete	Cost	Contract
	Project Cost Totals	280.954	35.989	41.854	18.040	0.000	18.040			

Remarks

PE 0603582N: Combat System Integration Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603582N: Combat System Integration

PROJECT

0164: Combat System Integration

		FY 2	2012	2		F١	/ 20	13		F'	Y 20)14			FY 2	2015	5		FΥ	2016	6		FY	201	7		F	Y 20	18	,
	1	2	3	4	1	2	2 :	3	4 1	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		4	1	2	3	4
COMBAT SYSTEM INTEGRATION																														
LHD 7/8 TBV/CSIT																														
FY 12 LPD 22/23 CSIT																														
FY14 NAVCERTs (DDGs 58, 76, 106; CG 55; LPD 18)																														
FY14 NAVCERTs (DDGs 64, 57, 90; LHD 4, 5; CVN 68, 75)																														
FY14 NAVCERTs (DDGs 59, 73, 74, 95, 103, 108; LHD 1)																														
FY14 NAVCERTs (DDGs 67, 105; LHD 8; CG 52, 59; LPD 21; CVN 70)																														
FY15 NAVCERTs (DDGs 86, 87, 92; LHD 2; CG 71)																														
FY15 NAVCERTs (LCS 1; CVNs 72, 77)																														
FY15 NAVCERTs (DDGs 93, 94, 96, 109; CG 53, 58; CVN 76)																														
FY15 NAVCERTs (DDGs 52, 62, 77, 88, 107; CG 63, 73; CVN 65)																														
FY16 NAVCERTs (DDGs 89, 91)																														
FY16 NAVCERTs (DDG 70; MCMs 5, 7, 11; CVN 74; CG 54)																														
FY16 NAVCERTs (DDGs 51, 53, 111; CG 66; MCM 2)																														
FY16 NAVCERTs (DDGs 65, 97; CVN 69, 73; CG 72; MCM 4; LHD 6)																														
FY17 NAVCERTs (DDGs 63, 98, 99; LPD 17, 22; LHD 7; LCC 19)																														

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy DATE: April 2013 **PROJECT** APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE** 0164: Combat System Integration 1319: Research, Development, Test & Evaluation, Navy PE 0603582N: Combat System Integration BA 4: Advanced Component Development & Prototypes (ACD&P) FY 2012 FY 2015 FY 2016 FY 2017 FY 2018 FY 2013 FY 2014 3 4 1 1 2 2 3 4 1 2 1 2 3 4 1 2 3 4 1 2 2 3 4 3 4 3 4 FY17 NAVCERTs (DDGs 60, 79, 81, 102, 112; LHA 5; LHD 3; CG 60, 68, 70) FY17 NAVCERTs (CG 65, 67; CVNs 73, 75; DDGs 71, 85, 101) FY17 NAVCERTs (LHD 4, 5; DDG 68) FY18 NAVCERTs (DDGs 63, 64, 82, 83, 100; CVNs 71, 76, 77) FY18 NAVCERTs (DDGs 75, 71, 72, 80, 85, 94; CGs 69, 52) FY18 NAVCERTs (LPD 18, DDG 104) FY18 NAVCERTs (LHD 7; DDG 76, 78) C5IMP Monthly Baselining (12/Year) FY14 NCMC - 1 FY14 NCMC - 2 **FY15 NCMC - 1 FY15 NCMC - 2** FY16 NCMC - 1 **FY16 NCMC - 2 FY17 NCMC - 1 FY17 NCMC - 2 FY18 NCMC - 1 FY18 NCMC - 2** AEGIS ACB 12 Integrated Testing DEMO #2 @ NSWC/DD SSDS Interoperability Test & Analysis SSDS Interoperability Assessment AMIIP Interoperability Test & Analysis **UNCLASSIFIED**

PE 0603582N: Combat System Integration Navy

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DATE: April 2013 Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

1319: Research, Development, Test & Evaluation, Navy

PE 0603582N: Combat System Integration 0164: Combat System Integration

	F	Y 2	012		I	FY 2	2013			FY 2	2014	.		FY 2	2015	5		FY 2	2016			FY 2	2017			FY 20	18	
	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
AMIIP Interoperability Assessment			•		•																	•						
Verification, Validation & Analysis (13-1)																												
CVN 68 CSIT																												
Systems Engineering Event (13-1)																											_	
ACB 12 (B/L 9A) Interoperability Test & Analysis			·																									
ACB 12 (B/L 9A) Interoperability Assessment																												
AWS 7.2 Interoperability Test & Analysis																												
AWS 7.2 Interoperability Assessment																												
Verification, Validation & Analysis (13-2)																												
Systems Engineering Event (13-2)																												
CVN 69 CSIT																												
LCS 2 CSIT																												
LHD 2 CSIT																											_	
LPD 22 CSIT																												
LSD 41 Class CSIT																												
CVN 75 CSIT																												
FY13 DDG 1000 CSIT																												
FY13 CVN 69 Interoperability Assessment																												
LPD 22 Interoperability Assessment																												
ACB 12 Interoperability Assessment																												
FY13 AWS 8.1.0.0 Interoperability Assessment																												
FY14 LHD 7 Interoperability Assessment																											_	
FY14 ACB 12 Interoperability Assessment																												
CVN 75 Interoperability Assessment																												_

PE 0603582N: Combat System Integration Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy DATE: April 2013 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 1319: Research, Development, Test & Evaluation, Navy 0164: Combat System Integration PE 0603582N: Combat System Integration BA 4: Advanced Component Development & Prototypes (ACD&P) FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 2 3 4 1 2 1 3 DDG 1000 Interoperability Assessment FY16 ACB 12 Interoperability Assessment FY16 AWS 8 Interoperability Assessment CVN 78 Interoperability Assessment CVN 69 Interoperability Assessment FY18 ACB 12 Interoperability Assessment FY18 AWS 7.1 Interoperability Assessment

PE 0603582N: Combat System Integration Navy

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DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

1319: Research, Development, Test & Evaluation, Navy PE 0603582N: Combat System Integration

0164: Combat System Integration BA 4: Advanced Component Development & Prototypes (ACD&P)

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
COMBAT SYSTEM INTEGRATION				
LHD 7/8 TBV/CSIT	1	2012	2	2012
FY 12 LPD 22/23 CSIT	1	2012	2	2012
FY14 NAVCERTs (DDGs 58, 76, 106; CG 55; LPD 18)	1	2014	1	2014
FY14 NAVCERTs (DDGs 64, 57, 90; LHD 4, 5; CVN 68, 75)	2	2014	2	2014
FY14 NAVCERTs (DDGs 59, 73, 74, 95, 103, 108; LHD 1)	3	2014	3	2014
FY14 NAVCERTs (DDGs 67, 105; LHD 8; CG 52, 59; LPD 21; CVN 70)	4	2014	4	2014
FY15 NAVCERTs (DDGs 86, 87, 92; LHD 2; CG 71)	1	2015	1	2015
FY15 NAVCERTs (LCS 1; CVNs 72, 77)	2	2015	2	2015
FY15 NAVCERTs (DDGs 93, 94, 96, 109; CG 53, 58; CVN 76)	3	2015	3	2015
FY15 NAVCERTs (DDGs 52, 62, 77, 88, 107; CG 63, 73; CVN 65)	4	2015	4	2015
FY16 NAVCERTs (DDGs 89, 91)	1	2016	1	2016
FY16 NAVCERTs (DDG 70; MCMs 5, 7, 11; CVN 74; CG 54)	2	2016	2	2016
FY16 NAVCERTs (DDGs 51, 53, 111; CG 66; MCM 2)	3	2016	3	2016
FY16 NAVCERTs (DDGs 65, 97; CVN 69, 73; CG 72; MCM 4; LHD 6)	4	2016	4	2016
FY17 NAVCERTs (DDGs 63, 98, 99; LPD 17, 22; LHD 7; LCC 19)	1	2017	1	2017
FY17 NAVCERTs (DDGs 60, 79, 81, 102, 112; LHA 5; LHD 3; CG 60, 68, 70)	2	2017	2	2017
FY17 NAVCERTs (CG 65, 67; CVNs 73, 75; DDGs 71, 85, 101)	3	2017	3	2017
FY17 NAVCERTs (LHD 4, 5; DDG 68)	4	2017	4	2017
FY18 NAVCERTs (DDGs 63, 64, 82, 83, 100; CVNs 71, 76, 77)	1	2018	1	2018
FY18 NAVCERTs (DDGs 75, 71, 72, 80, 85, 94; CGs 69, 52)	2	2018	2	2018
FY18 NAVCERTs (LPD 18, DDG 104)	3	2018	3	2018

PE 0603582N: Combat System Integration Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

R-1 ITEM NOMENCLATURE P

PROJECT

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration

0164: Combat System Integration

DATE: April 2013

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
FY18 NAVCERTs (LHD 7; DDG 76, 78)	4	2018	4	2018
C5IMP Monthly Baselining (12/Year)	1	2014	4	2018
FY14 NCMC - 1	1	2014	1	2014
FY14 NCMC - 2	3	2014	3	2014
FY15 NCMC - 1	1	2015	1	2015
FY15 NCMC - 2	3	2015	3	2015
FY16 NCMC - 1	1	2016	1	2016
FY16 NCMC - 2	3	2016	3	2016
FY17 NCMC - 1	1	2017	1	2017
FY17 NCMC - 2	3	2017	3	2017
FY18 NCMC - 1	1	2018	1	2018
FY18 NCMC - 2	3	2018	3	2018
AEGIS ACB 12 Integrated Testing DEMO #2 @ NSWC/DD	1	2013	1	2013
SSDS Interoperability Test & Analysis	1	2013	2	2013
SSDS Interoperability Assessment	2	2013	2	2013
AMIIP Interoperability Test & Analysis	2	2013	3	2013
AMIIP Interoperability Assessment	3	2013	3	2013
Verification, Validation & Analysis (13-1)	2	2013	2	2013
CVN 68 CSIT	2	2013	3	2013
Systems Engineering Event (13-1)	2	2013	2	2013
ACB 12 (B/L 9A) Interoperability Test & Analysis	2	2013	3	2013
ACB 12 (B/L 9A) Interoperability Assessment	3	2013	3	2013
AWS 7.2 Interoperability Test & Analysis	3	2013	4	2013
AWS 7.2 Interoperability Assessment	4	2013	4	2013
Verification, Validation & Analysis (13-2)	4	2013	4	2013

PE 0603582N: Combat System Integration Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE PROJECT

PE 0603582N: Combat System Integration

0164: Combat System Integration

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Systems Engineering Event (13-2)	4	2013	4	2013
CVN 69 CSIT	2	2013	3	2013
LCS 2 CSIT	1	2013	3	2013
LHD 2 CSIT	4	2013	1	2014
LPD 22 CSIT	3	2013	4	2013
LSD 41 Class CSIT	2	2013	3	2013
CVN 75 CSIT	2	2013	3	2013
FY13 DDG 1000 CSIT	3	2013	4	2013
FY13 CVN 69 Interoperability Assessment	1	2013	1	2013
LPD 22 Interoperability Assessment	2	2013	2	2013
ACB 12 Interoperability Assessment	3	2013	3	2013
FY13 AWS 8.1.0.0 Interoperability Assessment	4	2013	4	2013
FY14 LHD 7 Interoperability Assessment	1	2014	1	2014
FY14 ACB 12 Interoperability Assessment	2	2014	2	2014
CVN 75 Interoperability Assessment	1	2015	1	2015
DDG 1000 Interoperability Assessment	2	2015	2	2015
FY16 ACB 12 Interoperability Assessment	1	2016	1	2016
FY16 AWS 8 Interoperability Assessment	2	2016	2	2016
CVN 78 Interoperability Assessment	1	2017	1	2017
CVN 69 Interoperability Assessment	2	2017	2	2017
FY18 ACB 12 Interoperability Assessment	1	2018	1	2018
FY18 AWS 7.1 Interoperability Assessment	2	2018	2	2018

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research Development Test & Evaluation Navy	PF 0603582N: Combat System Integration	3312 MTMD-Maritime Theater Missile

BA 4: Advanced Component Development & Prototypes (ACD&P)

3312: MTMD-Maritime Theater Missile
Defense Forum

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3312: MTMD-Maritime Theater Missile Defense Forum	0.000	3.135	4.561	8.525	-	8.525	9.478	9.140	9.385	7.863	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This project funds participation in the Maritime Missile Defense Projects Framework Memorandum of Understanding of 2004 (as amended in 2009). Known as the Maritime Theater Missile Defense (MTMD) forum, it promotes interoperability with the Navies of nine participating nations. This project funds participation in several Project Arrangements and includes maritime contribution to the NATO Active Layered Theater Ballistic Missile Defense (ALTBMD) project.

The MTMD forum provides protection against the proliferation of short, medium and long-range Ballistic Missile (BM) and Advanced Anti-Ship Cruise Missile (ASCM) threats through the creation of an interoperable sea-based Integrated Air and Missile Defense (IAMD)capability among coalition nations. This includes protection across the full spectrum of these threats through the enhanced utilization of existing sea-based systems to protect against current threats while progressively improving and developing systems and system-of- systems to effectively counter evolving threats.

MTMD supports USN participation in several MTMD related Project Arrangements and Working Groups including:

- (1) Battle Management Command, Control, Communications, Computers, and Intelligence (BMC4I) to define and develop architectures as well as to perform engineering to address coalition capability gaps.
- (2) Modeling & Simulation (M&S) to establish and maintain a maritime coalition M&S testbed and to perform legacy and future systems simulation testing.
- (3) Coalition Distributed Engineering Plant (CDEP) to establish and maintain a maritime coalition Hardware-in-the-Loop Testbed and to conduct CDEP testing.
- (4) Open Architecture (OA) to develop Interface Standards and Data Models.
- (5) Test Planning and Execution (TPEX) to develop Test Plans, oversee exercise participation and conduct post event data analysis and reporting.
- (6) Operational Requirements (OR) to develop a Coalition Maritime Missile Defense Operational Concept Document and to identify operational constraints and tactical constructs surrounding coalition maritime missile defense activities.
- (7) Next Generation Infrared Search and Track (IRST) to evaluate commercial-based technologies to develop a passive IRST sensor system in support of coalition maritime missile defense operations.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Maritime Theater Missile Defense Forum (MTMD)	3.135	4.561	8.525
Articles:	0	0	0

PE 0603582N: Combat System Integration

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603582N: Combat System Integration	PROJECT 3312: MTMD-Mari Defense Forum	time Theater I	Missile
B. Accomplishments/Planned Programs (\$ in Millions, Article Quant	tities in Each)	FY 2012	FY 2013	FY 2014
Description: This project funds participation in the MTMD forum to pron This project funds participation in the Modeling and Simulation (M&S), B Computers and Intelligence (BMC4I), and Coalition Distributed Engineer Open Architecture (OA), Operational Requirements (OR) and Next Gene Arrangements and working groups.	attle Management, Command, Control, Communicating Plant (CDEP), Test Planning and Execution (TPI	tions,		
FY 2012 Accomplishments: MTMD participated in the Modeling and Simulation (M&S), Battle Managand Intelligence (BMC4I), and Coalition Distributed Engineering Plant (Coarchitecture (OA), Operational Requirements (OR) and Next Generation and working groups. Funding was used for collaborative development of improve key allies' maritime missile defense interoperability with U.S. For Missile Defense exercises with targets and weapons.	DEP), Test Planning and Execution (TPEX), Open Infrared Search and Track (IRST) Project Arrangem farchitectures, engineering, test and evaluation to			
FY 2013 Plans: To participate in the Modeling and Simulation (M&S), Battle Managemer and Intelligence (BMC4I), and Coalition Distributed Engineering Plant (CArchitecture (OA), Operational Requirements (OR) and Next Generation and working groups.	CDEP), Test Planning and Execution (TPEX), Open			
FY 2014 Plans: To participate in the Modeling and Simulation (M&S), Battle Managemer and Intelligence (BMC4I), and Coalition Distributed Engineering Plant (C Architecture (OA), Operational Requirements (OR) and Next Generation and working groups.	CDEP), Test Planning and Execution (TPEX), Open			
	Accomplishments/Planned Programs Sub	ototals 3.135	4.561	8.5

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

N/A

Remarks

D. Acquisition Strategy

N/A

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603582N: Combat System Integration	PROJECT 3312: MTI Defense F	MD-Maritime Theater Missile
E. Performance Metrics Quarterly Program Reviews and Baseline Assessments			

PE 0603582N: Combat System Integration Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) R-1 ITEM NOMENCLATURE

PE 0603582N: Combat System Integration

PROJECT

3312: MTMD-Maritime Theater Missile

Defense Forum

Support (\$ in Million	ıs)			FY :	2012	FY 2	2013		2014 ise	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Maritime Theater Missile Defense Forum	WR	Various NWCSs:Dam Neck/ Dahlgren/Corona	0.000	1.997	Dec 2011	2.995	Dec 2012	5.632	Sep 2014	-		5.632	Continuing	Continuing	Continuinç
Maritime Theater Missile Defense Forum	C/FFP	Various Contracts:SAIC/ EG&G/NOVONICS/ TASC/BCI/JHU APL	0.000	1.138	Dec 2011	1.566	Dec 2012	2.893	Sep 2014	-		2.893	0.000	5.597	
		Subtotal	0.000	3.135		4.561		8.525		0.000		8.525			
			All Prior Years	FY:	2012	FY :	2013		2014 ise	FY 2		FY 2014 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	3.135		4.561		8.525		0.000		8.525			

Remarks

PE 0603582N: Combat System Integration

Navy

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration 3312: MTMD-Maritime Theater Missile Defense Forum

	F	Y 2	012			FΥ	201	3		FY	2014	4		FY :	2015	5		FY 2	2016	;		FY 2	2017	,		FY 2	018	,
	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: 3312 - MTMD-Maritime Theater Missile Defense Forum																												
Next Generation IRST (NG IRST) #1																												
Battle Mgmt, Command, Control, Communications, Computers, & Intell. (BMC4I) #2 Baseline Arch IO GAP Analysis &Target Arch #1 (TA1)																												
OA-OARIS #1																												
OR-Force Level ROE , OCD																												
OA-FLOATS #1 FLFs Interface Standards																												
Test Planning and Execution (TPEX) Master Test Plan, RIMPAC 12, Rapid Arrow, JW 13-1, JPOW13, At-Sea Event #1																												
Modeling & Simulation (M&S) Test #2 (BA/RA) and JPOW 2013																												
CDEP Interoperability Test #2 (BA/RA)																												
NG IRST #2																												
Combined M&S and CDEP Test #4 TA1 and Force Level Functions (FLFs) Test																												
Combined M&S and CDEP Test #3 TA1 and Pre-At-Sea Event Training																												
OR-Operational Oversight to T&E Events, FLFs, Training & TTPs																												
BMC4I Target Architecture # 3 (TA2) Engineering & Analysis																												

PE 0603582N: Combat System Integration Navy

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy DATE: April 2013 APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT** 1319: Research, Development, Test & Evaluation, Navy PE 0603582N: Combat System Integration 3312: MTMD-Maritime Theater Missile BA 4: Advanced Component Development & Prototypes (ACD&P) Defense Forum FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 2 3 4 1 2 1 3 TPEX A #2: At-Sea Events Joint Warrior 2015, RIMPAC 2016, Joint Warrior 2017 and RIMPAC 2018 OA-FLOATS #2 TA2, PPS Interface Standards

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

AFFROFRIATION/BUDGET ACTIVITY R-TITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603582N: Combat System Integration
Defense Forum

Schedule Details

	Sta	art	En	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj: 3312 - MTMD-Maritime Theater Missile Defense Forum				
Next Generation IRST (NG IRST) #1	1	2012	4	2012
Battle Mgmt, Command, Control, Communications, Computers, & Intell. (BMC4I) #2 Baseline Arch IO GAP Analysis &Target Arch #1 (TA1)	1	2012	4	2013
OA-OARIS #1	1	2012	4	2013
OR-Force Level ROE , OCD	1	2012	2	2013
OA-FLOATS #1 FLFs Interface Standards	1	2012	1	2015
Test Planning and Execution (TPEX) Master Test Plan, RIMPAC 12, Rapid Arrow, JW 13-1, JPOW13, At-Sea Event #1	1	2012	4	2015
Modeling & Simulation (M&S) Test #2 (BA/RA) and JPOW 2013	1	2012	3	2013
CDEP Interoperability Test #2 (BA/RA)	1	2012	4	2014
NG IRST #2	3	2013	3	2016
Combined M&S and CDEP Test #4 TA1 and Force Level Functions (FLFs) Test	2	2015	1	2018
Combined M&S and CDEP Test #3 TA1 and Pre-At-Sea Event Training	3	2012	4	2018
OR-Operational Oversight to T&E Events, FLFs, Training & TTPs	1	2013	4	2018
BMC4I Target Architecture # 3 (TA2) Engineering & Analysis	1	2013	1	2017
TPEX A #2: At-Sea Events Joint Warrior 2015, RIMPAC 2016, Joint Warrior 2017 and RIMPAC 2018	1	2014	4	2018
OA-FLOATS #2 TA2, PPS Interface Standards	1	2015	4	2018

PE 0603582N: Combat System Integration Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 1319: Research, Development, Test & Evaluation, Navy PE 0603582N: Combat System Integration 9B88: Automated Test and Re-Test BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
9B88: Automated Test and Re- Test	0.000	9.875	10.136	10.005	-	10.005	8.124	8.236	8.411	8.552	Continuing Co	ontinuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

The Navy, through Automated Test and Re-Test (ATRT) is developing an automated test/analysis capability, which is applicable at phases within system development and integration which provides reproducible and quantitative evaluation of system performance with reduced levels of effort and schedule in order to support one of the Navy's priority initiatives of reduction of Total Ownership Cost (TOC). Funding will provide additional work towards ongoing testing and analysis efforts within the Combat Systems Integration Testing (CSIT), formerly known as Warfare Systems Integration and Interoperability Testing (WSI2T), AEGIS Combat System Advanced Capability Build (ACB) 12, Antisubmarine Warfare Integrated Common Processor/Acoustic Rapid COTS Insertion, the Littoral Combat Ship (LCS) Mission Module development and other major acquisition programs. In addition, funding will support the development of standards, specifications, and guidance to facilitate NAVSEAaffiliated programs' adoption of this TOC-reducing discipline and technology.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Automated Test and Re-Test	9.875	10.136	10.005
Articles:	0	0	0
Description: The Navy, through Automated Test and Re-Test (ATRT) is developing an automated test/analysis capability, which is applicable at phases within system development and integration which provides reproducible and quantitative evaluation of system performance with reduced levels of effort and schedule in order to support one of the Navy's priority initiatives of reduction of Total Ownership Cost (TOC). Funding will provide additional work towards ongoing testing and analysis efforts within the Combat Systems Integration Testing (CSIT), formerly known as Warfare Systems Integration and Interoperability Testing (WSI2T), AEGIS Combat System Advanced Capability Build (ACB) 12, Antisubmarine Warfare Integrated Common Processor/Acoustic Rapid COTS Insertion, the Littoral Combat Ship (LCS) Mission Module development and other major acquisition programs. In addition, funding will support the development of standards, specifications, and guidance to facilitate NAVSEA-affiliated programs' adoption of this TOC-reducing discipline and technology.			
FY 2012 Accomplishments:			
The ATRT program will be concluding (6) FY 2011 ATRT implementation projects throughout NAVSEA - affiliated PEOs. The			
ATRT program has continued to lead and advocate the development of automating testing standards, specifications, and contract language. There are currently (12) FY 2012 efforts in process for award and execution through PEO SHIPS, PEO CARRIERS,			

PE 0603582N: Combat System Integration

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DATE: April 2013

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0603582N: Combat System Integration	9B88: Automated Test and Re-Test
BA 4: Advanced Component Development & Prototypes (ACD&P)		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	F 1 2012	F 1 2013	FY 2014
PEO SUB, PEO IWS, PEO LCS, NAVSEA 05, and NAVSEA Warfare Centers. The ATRT program has continued to promote ATRT applications across NAVSEA - affiliated PEOs, with the intent of transitioning further development of the ATRT applications out of NAVSEA 05 program office funds.			
FY 2013 Plans: The ATRT program will continue to provide funding for investments in seed projects to implement ATRT within existing test processes in programs across NAVSEA. In parallel, the program will facilitate the development standards, specifications, and guidance for the use of ATRT tools and processes. With the recent engagement of other SYSCOMs in ATRT, a community of practice is gradually being developed across the system commands as the automated testing community becomes more engaged in the discipline.			
FY 2014 Plans: The ATRT program will continue to increase the number of ATRT pilot programs with the result of accelerating ATRT implementation as part of acquisition program development. Also, the ATRT program will continue to advocate the maturation/development of standards, specifications, and contract language that would improve test tool commonality and reuse across the Navy T&E domains.			
Accomplishments/Planned Programs Subtotals	9.875	10.136	10.005

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

N/A

Navy

<u>Remarks</u>

D. Acquisition Strategy

The Program Strategy for the ATRT program includes the following:

- Investigation of applicable similarities to industry standards, specifications, and processes that are relevant to ATRT program to recognize best practices and leverage opportunities
- Development of standards and specifications for ATRT tools/processes

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

- Funding and execution of ATRT startup projects within acquisition programs per submission of proposals and Business Case Analyses (BCA)
- Development of training and outreach efforts to promote awareness of automated testing and analysis body of knowledge and available tools/processes
- Setup and maintain an ATRT portal for the collection and dissemination of body of knowledge
- Produce Contract Language Guidebook for ATRT

E. Performance Metrics

Progress towards meeting the objectives of the ATRT efforts will be monitored via the following:

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EV 2012

EV 2013

EV 2014

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0603582N: Combat System Integration	9B88: Automated Test and Re-Test
BA 4: Advanced Component Development & Prototypes (ACD&P)		
 Progress Briefs at Quarterly ATRT Stakeholders Meetings Program Technical Reviews Return on Investment (ROI) metrics based on testing and analysis level Return on Investment Metrics based on work hours for test process ex 		of ATRT

PE 0603582N: Combat System Integration Navy

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE PROJECT

PE 0603582N: Combat System Integration

9B88: Automated Test and Re-Test

Product Developmen	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2		FY 2014 Total	_		
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Auto Test Retest	C/CPFF	Innovative Defense Technologies (IDT):Ballston, VA	0.000	9.056	Dec 2011	9.090	Dec 2012	9.005	Sep 2014	-		9.005	0.000	27.151	
Auto Test Retest	WR	Various NSWCs:Not Specified	0.000	0.779	Dec 2011	0.842	Dec 2012	0.800	Sep 2014	-		0.800	0.000	2.421	
		Subtotal	0.000	9.835		9.932		9.805		0.000		9.805	0.000	29.572	

Support (\$ in Millions	s)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Auto Test & Retest	C/CPFF	Gryphon Technologies:Herndor VA	n, 0.000	0.040	Dec 2011	0.204	Dec 2012	0.200	Sep 2014	-		0.200	Continuing	Continuing	Continuing
		Subtotal	0.000	0.040		0.204		0.200		0.000		0.200			

			·								
											Target
	All Prior					FY 2014	FY 2014	FY 2014	Cost To	Total	Value of
	Years	FY 20	012	FY 2	013	Base	осо	Total	Complete	Cost	Contract
Project Cost Totals	0.000	9.875		10.136		10.005	0.000	10.005			

Remarks

PE 0603582N: Combat System Integration Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE PROJECT

PE 0603582N: Combat System Integration 9B88: Automated Test and Re-Test

		FΥ	2012	2		FY	201	3		F١	20 1	4		FΥ	201	5		FY	201	6		FY	20	17		I	FY 2	018	,
	1	2	3	4	1	2	3	4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	2 3	3	4	1	2	3	4
Automated Test and Re-Test (ATRT)																													
Development of ATRT Reference Model																													
Annual Startup Projects for ATRT Implementation																													
Development of ATRT standards and specifications																													
Participation in Existing Government and Industrial Standards Boards																													
Evaluation of Business Case Analyses (BCA) of potential ATRT investments																													
Development of training and lessons learned for ATRT																													
Development of guidance for contract and requirements language pertaining to ATRT																													
Conduct of outreach efforts to NAVSEA programs and industry																													
ATRT Portal for Body of Knowledge																													

PE 0603582N: Combat System Integration

Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0603582N: Combat System Integration 9B88: Automated Test and Re-Test

BA 4: Advanced Component Development & Prototypes (ACD&P)

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Automated Test and Re-Test (ATRT)				
Development of ATRT Reference Model	1	2012	1	2018
Annual Startup Projects for ATRT Implementation	1	2012	4	2018
Development of ATRT standards and specifications	1	2012	4	2018
Participation in Existing Government and Industrial Standards Boards	1	2012	4	2018
Evaluation of Business Case Analyses (BCA) of potential ATRT investments	1	2012	4	2018
Development of training and lessons learned for ATRT	1	2012	4	2018
Development of guidance for contract and requirements language pertaining to ATRT	1	2012	4	2018
Conduct of outreach efforts to NAVSEA programs and industry	1	2012	4	2018
ATRT Portal for Body of Knowledge	1	2012	4	2018