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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	2,692.405	232.441	206.298	189.112	-	189.112	300.374	206.348	210.919	243.710	Continuing	Continuing
1447: Surf Combatant Combat System Imp	2,692.405	232.441	202.528	180.118	-	180.118	295.121	203.567	208.802	241.550	Continuing	Continuing
3357: Aegis Training Improvement Program	0.000	-	3.770	8.994	-	8.994	5.253	2.781	2.117	2.160	Continuing	Continuing
MDAP/MAIS Code: 180												

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

A. Mission Description and Budget Item Justification

This project provides Cruiser and Destroyer AEGIS Combat System (ACS) upgrades and integrates new equipment and systems to pace the threat and capture advances in technology. Examples of captured advanced technologies are: fiber optics, distributed architecture, and high performance computing, all of which require corresponding AEGIS Weapon System (AWS) and ACS changes.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	260.616	240.298	204.919	-	204.919
Current President's Budget	232.441	206.298	189.112	-	189.112
Total Adjustments	-28.175	-34.000	-15.807	-	-15.807
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-34.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-5.871	-			
• Program Adjustments	-	-	-14.457	-	-14.457
• Rate/Misc Adjustments	0.001	-	-1.350	-	-1.350
• Congressional General Reductions Adjustments	-22.305	-	-	-	-

Change Summary Explanation

FY13 Congressional General Reduction (Sequestration and Congressional rescissions).

FY14 Congressional Reduction (Excess Funding and Schedule Delay)

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FY15 decrease due to Department decision to reduce contracted services and rephasing of requirements to match expected fleet expenditures.		

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Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng				Project (Number/Name) 1447 / Surf Combatant Combat System Imp			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1447: Surf Combatant Combat System Imp	2,692.405	232.441	202.528	180.118	-	180.118	295.121	203.567	208.802	241.550	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
This project provides AEGIS Cruiser & Destroyer ACS upgrades and integrates new equipment and systems to pace the threat and capture advances in technology. The ACS capabilities have continually evolved starting with AEGIS Baseline (BL) 2 on Guided Missile Cruisers (CG 52-58), BL 3 on CG 59-64, and BL 4 on CG 65-73. In FY 1992, AEGIS BL 5 was introduced on DDG 51-78, BL 6 on DDG 79-90, and BL 7 on DDG 91-112.												
The AEGIS Modernization Baselines will provide new technology to replace aging military equipment, extend service life, and maintain viability of AEGIS combatants into the future. These baselines reduce combat system maintenance life cycle costs and streamline the development of capabilities. AEGIS BL 8 (Cruiser Modernization) upgraded CG 52-58, while AEGIS BL 9, consisting of an upgraded computing infrastructure and computer program enhancements, will modernize CG 59-73 and DDG 51-78. AEGIS BL 9 will also be introduced on the new construction destroyers, starting with DDG 113.												
AEGIS Advanced Capability Build (ACB) 16 and Technical Insertion (TI) 16 will provide warfighter upgrades to AEGIS Destroyers to include the latest Computing Power (TI-16), improved Ballistic Missile Defense (BMD) capabilities, SEWIP BLK II, MH-60R Integration, IFF Mode 5/S, SPQ-9B, Total Ship Training Capability (TSTC), and other capabilities to address future emerging threats. Future combat system development and integration efforts will support the Air Missile Defense Radar (AMDR) acquisition milestone requirements and build upon ACB 16 to form the foundation for the AEGIS Flight III DDGs. In addition, Fleet Firing events were reconstituted to validate AEGIS Combat System updates, performance and fleet proficiency.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: AEGIS DEVELOPMENT SUPPORT									28.954	46.582	34.870	
									Articles: -	-	-	
FY 2013 Accomplishments:												
Provided AEGIS development support for the following: Combat System Engineering Development Site (CSEDS), Program Generation Center (PGC), and Naval System Computing Center (NSCC) in support of AEGIS computer program development, testing, and integration for all AWS products. Provided systems engineering for labs and field activities, program management support, modeling & simulation, requirements management, warfighting capability integration assessments, and conceptual studies. Provided computer program license funding to support land-based test site installation, development and test efforts. Provided COTS issue resolution to support AEGIS Ships and address computer program modification to enable integration of												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
replacements parts. AEGIS development support in FY13 is primarily for AEGIS BL 9A/C/D, AEGIS AMIIP BL's (6.3, 7.1, 8.1), AEGIS BL 7.2, and future combat system development efforts. FY 2014 Plans: Plan to provide AEGIS development support for the following: CSEDS, Program Generation Center (PGC), and Naval System Computing Center (NSCC) in support of AEGIS computer program development, testing, and integration for all AWS products. Provide systems engineering for labs and field activities, program management support, modeling & simulation, requirements management, warfighting capability integration assessments, and conceptual studies. Provide computer program license funding to support land-based test site installation, development and test efforts. Provide COTS issue resolution to support AEGIS Ships and address computer program modification to enable integration of replacement parts. AEGIS development support in FY14 is primarily for AEGIS BL 9C/D, AEGIS BL 7.2, AEGIS ACB16, and future combat system development efforts. Increase Fleet Firing events to validate AEGIS Combat System updates and enhancements. FY 2015 Plans: Plan to provide AEGIS development support for the following: CSEDS, Program Generation Center (PGC), and Naval System Computing Center (NSCC) in support of AEGIS computer program development, testing, and integration for all AWS products. Provide systems engineering for labs and field activities, program management support, modeling & simulation, requirements management, warfighting capability integration assessments, and conceptual studies. Provide computer program license funding to support land-based test site installation, development and test efforts. Provide COTS issue resolution to support AEGIS Ships and address computer program modification to enable integration of replacements parts. AEGIS development support in FY15 is primarily for AEGIS BL 9D, AEGIS BL 6.3, AEGIS BL 7.2, AEGIS ACB16, and future combat system development efforts.				
Title: TECHNOLOGY INSERTION 12 Articles: FY 2013 Accomplishments: Provided systems engineering support to ACB12 developed and integrated capabilities related to technology insertion TI-12. Provided computer program development efforts related to AEGIS ACB12 to address hardware integration of Common Display Architecture Display System (CDADS), Secure Voice System (SVS), and LRADDs. Provided testing and integration of AEGIS ACB12 capabilities and supported Build 11 Mission Readiness Assessment (MRA). Executed AEGIS Weapon System demonstration to support system level testing. FY 2014 Plans:		1.473 -	0.900 -	0.404 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Continue systems engineering support to ACB12 developed and integrated capabilities related to technology insertion TI-12. Continue computer program development efforts related to AEGIS ACB12. Continue testing and integration of AEGIS ACB12 capabilities and support Build 13 Mission Readiness Assessment (MRA).				
FY 2015 Plans: Continue systems engineering support to ACB12 developed and integrated capabilities related to technology insertion TI-12.				
Title: ADVANCED CAPABILITY BUILD 12 (BL 9A/C)		115.500	54.900	5.722
Articles:		-	-	-
FY 2013 Accomplishments: Provided system engineering to support Build 11 MRA, B/L 9A/C Demonstration, and underway test events on CG 62, CG 60, and DDG 53. Supported ACB 12 system engineering to develop and integrate increased capabilities. Executed computer program development efforts related to AEGIS B/L 9A/C. Executed testing and integration of AEGIS ACB 12 identified capabilities. Provided additional Post-availability Underway testing events to evaluate and correct B/L 9A/C Computer Program. Provided additional Combat System procurement (MMSP) to support AEGIS ACB 12 development and integration efforts.				
FY 2014 Plans: Continue to provide systems engineering, integration, and test support to AEGIS BL 9A/C. Support build 13 MRA and computer program updates to support AEGIS combat system and weapon system certification efforts and Combat System Ship Qualification Trials (CSSQTs) for CG 62, CG 60, DDG 53, initial installation, check-out and availability testing for DDG 65, DDG 52 and CG 59 and BL 9A Operational Testing. Complete procurement of AEGIS warfare system elements to support AEGIS ACB 12 development and integration efforts.				
FY 2015 Plans: Continue to provide systems engineering, integration, and test support to AEGIS BL 9A/C. Support installation, checkout and availability testing on DDG 51 and CG 71 and installation, check-out and at-sea testing for BL 9C test ship (DDG 53) and DDG 52 and DDG 65 Combat System Ship Qualification Trials. Provide computer program updates to support AEGIS combat system and warfare system certification efforts.				
Title: ADVANCED CAPABILITY BUILD 12 (BL 9D)		34.440	33.370	18.000
Articles:		-	-	-
FY 2013 Accomplishments: Conducted Computer Program Increment Review (CPIR) # 5 in JAN 2013 and CPIR #6 (APR 2013). Conducted BL 9 NC IAMD DDG Integrated Baseline Review (IBR) in MAR 2013.				
FY 2014 Plans:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Provide system engineering, integration, and test to support AEGIS BL 9 NC IAMD DDG. Integrate BL 9 NC IAMD DDG and BMD 5.0 CU programs; Execute Builds 14, 15, 16, 17, & 18 Computer Program Development and ET&E; Conduct Software System Safety Technical Review Panel (SSSTRP) Updates; Support Production Hardware Acceptance Test Procedure (ATP); Support Continuous Joint Assessment of Maintainability (CJAM), Jamming Exercise (JAMEX), System Functional Tests (SFTs), Mission Readiness Assessment and endurance testing. FY 2015 Plans: Provide continued engineering support to AEGIS BL 9 NC IAMD DDG [BL 9.C1.0.0.1E (formerly BL 9D)] integrating BMD 5.0 CU programs for Joint Assessment of Maintainability (JAM), safety milestones Software System Safety Technical Review Panel (SSSTRP) and Weapons Systems Explosive Safety Review Board (WSESRB), Engineering Assessment, At-Sea engineering, Navy Link Certification testing, test events on DDG 53 that provide Objective Quality Evidence toward BL.C1.0.0.1E certification, Computer Program Change Request (CPCR) corrections that mature the computer program, installation support for AEGIS Light-Off (ALO) on DDG 113 & 115, and AEGIS Combat System (ACS) element integration.				
Title: NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR Articles: FY 2013 Accomplishments: Supported NIFC-CA development and integration within the AEGIS ACB12 combat system configuration. Maintained White Sands Missile Range (WSMR) site to support NIFC-CA and SM6 integration within the AEGIS ACB12 combat system. Supported NIFC-CA test events at WSMR and evaluate test results. Supported NIFC-CA at-sea test 1. FY 2014 Plans: N/A FY 2015 Plans: N/A		8.826 -	- -	- -
Title: AEGIS BASELINE 7.2 Articles: FY 2013 Accomplishments: Developed production engineering change proposals. Conducted In-Process Review (IPR) No 4. Continued computer program development. Continued developmental program test and integration efforts. Initiated Navy Performance Testing, and interoperability testing in conjunction with Accelerated Midterm Interoperability Improvement Project program. Initiated		18.500 -	22.900 -	6.400 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
program Certification Assessments. Conducted initial BL 7.2 WSESRB / SSSTRP. Continued Virginia site upgrades to support development and test efforts, and initiated Work Package and Technical Documentation development.				
FY 2014 Plans: Conduct IPR No 5. Complete computer program development, Navy Performance testing, Certification Assessments, and Work Package and Technical Documentation development. Conduct Navy Link test, Joint Link test, Integrated Logistic Support Certification, deployment Software System Safety Technical Review Panel/ Weapon System Explosive Safety Review Board, Combat System Certification Panel, and Warfare System Installation Assessments.				
FY 2015 Plans: Perform BL 7.2 installation on lead ship. Support Lead Ship underway assessment and provide Computer Program updates as required to address Combat System deficiencies identified during underway assessment events.				
Title: FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION		18.448	14.131	51.938
Articles:		-	-	-
FY 2013 Accomplishments: Conducted Air Missile Defense Radar (AMDR) Combat System Integration IPR #2; developed draft AMDR Combat System Interface Requirement Specifications (IRSs); developed requirements to support SRR/SFR for Combat System Simulator for Early Combat System Integration and Test required for AMDR MS C.				
FY 2014 Plans: Conduct AMDR CS Integration IPR #3; complete AMDR Combat System IRSs; support AMDR CDR; execute Combat System Interface Support Equipment (CSISE) SRR/SFR; conduct detailed design and software development for CSISE to support early Combat System Integration and Test required for AMDR MS C.				
FY 2015 Plans: Provide management and systems engineering support for critical AMDR and AEGIS program milestones to include: the conduct of AMDR/Combat System Integration Integrated Production Review (IPR) #4; artifact review and feedback for TI Next Preliminary Design review (PDR); development and planning for ACB Next System Requirements Review (SRR). Provide management, engineering and test support for the planning and execution of land based testing at Advanced Radar Detection Laboratory (ARDEL) to include: Combat System Interface Support Equipment (CSISE) development, maintenance and operations; support for all test related planning efforts and milestones.				
Title: ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PLAN (AMIIP)		6.300	1.900	-
Articles:		-	-	-
FY 2013 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Conducted Engineering Assessment No. 4. Identified and made corrections in AEGIS and Ship Gridlock System (SGS) Auto Correlator (AC) computer programs based on Trident Warrior test results. Conducted Multi-Site test event No. 3 with analysis, and certify for fielding the AEGIS Combat Systems computer programs 6.3.3.0, 7.1R.1.0, and 8.1.2.0. FY 2014 Plans: Continue to support AEGIS Weapon System computer programs 6.3.3.0, 7.1R.1.0, and 8.1.2.0.throughout installation and test period. Evaluate and resolve critical discrepancies with the AEGIS combat system discovered during installation and testing with SSDS B/L 6 scheduled to certify for fielding third quarter FY14. FY 2015 Plans: N/A				
Title: ADVANCED CAPABILITY BUILD 16 FY 2013 Accomplishments: N/A FY 2014 Plans: Provide program management and system engineering support to ACB 16/TI 16 program development. Prepare for and conduct the government led ACB 16 System Requirements Review (SRR) scheduled for November 2013. Complete development of ACB 16 System Spec (A-Spec), System Subsystem Description Document (SSDD) and other SRR required artifacts, coordinate Navy Review Teams and lead the ACB 16 SRR. Conduct post-SRR clean-up activities and prepare for System Functional Review (SFR). Work with CSEA to refine requirements and system architecture. Review CSEA developed artifacts for SFR (March 2014) and participate in the SFR. Work with the CSEA in requirements and architecture decomposition in preparation for a first quarter FY 15 PDR. Continue system engineering, equipment development and test, and procurement activities for TI 16. FY 2015 Plans: Provide continued program management and system engineering support to BL 9.C2.0.0.2E (ACB 16/TI 16) program development. Prepare for and conduct BL 9.C2.0.0.2E Preliminary Design Review (PDR) scheduled for first quarter FY15 and Critical Design Review (CDR) fourth quarter FY15. Development and review of Allocated Baseline subsystem, hardware, and interface specifications. Development of BL 9.C2.0.0.2E Computer Program Build 1. Complete the development of TI-16 Hardware configuration and execute OE development.		Articles: - -	27.845 -	62.784 -
Accomplishments/Planned Programs Subtotals		232.441	202.528	180.118

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C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• R&D 0604501N: Multi Mission Signal Processor	12.602	14.795	9.669	-	9.669	13.522	13.853	14.167	14.557	Continuing	Continuing	
• SCN 2122: DDG 51	4,497.011	2,085.115	2,934.598	-	2,934.598	3,276.756	3,312.269	3,354.739	3,337.383	Continuing	Continuing	
• OPN 0960: CG Modernization	80.868	10.539	-	-	-	-	87.990	113.260	106.778	Continuing	Continuing	
• OPN 5246: AEGIS Support Equipment	74.527	59.757	-	-	-	-	-	-	-	Continuing	Continuing	
• OPN 0900: DDG Modernization	407.707	285.994	338.569	-	338.569	427.258	491.224	719.671	669.440	Continuing	Continuing	
• R&D 0604378N PU 3159: NIFC-CA	35.872	21.413	15.263	-	15.263	26.167	21.647	17.319	17.647	Continuing	Continuing	
• OPN 5231: Ship Missile Support Equipment (AEGIS Support Equipment)	-	-	67.592	-	67.592	62.495	39.125	33.306	33.941	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Combat system improvements are implemented in baselines as described in the project mission statement. After the combat system is completed and tested, the computer program and associated equipment are delivered to the new construction shipbuilders and modernization shipyards where the computer program and equipment are installed and tested along with all other elements of the shipboard combat system and associated combat support systems. The computer program is a Government Furnished Equipment (GFE) deliverable to the Production Test Center for equipment test and check out. Future Combat System delivery will be provided in ACBs and Technology Insertions (TIs) using the Combat System Engineering Agent (CSEA) contract. Additional modifications to the existing contracts will address B/L 9D completion and Future Combat System engineering efforts related to AMDR Integration.												
E. Performance Metrics												
Combat system development efforts will complete major development milestones.												
Major Milestones for ACB12 (B/L 9A/C):												
Completed C9A/C Demonstration first quarter of FY13.												
Advanced Capability Build 12 DDG 53 Combat System Ships Qualification Trial third quarter of FY14.												
Advanced Capability Build 12 CG 62 Combat System Ships Qualification Trial fourth quarter of FY14.												
9A Computer Program Acceptance Panel/Combat System Certification Panel fourth quarter of FY14.												
9A Warfare Certification first quarter of FY15.												
9C Computer Program Acceptance Panel/Combat System Certification Panel fourth quarter of FY15.												
9C Warfare Certification fourth quarter of FY15.												

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<p>Major Milestones for B/L 9D:</p> <p>Completed CPIR No. 5 in second quarter of FY13.</p> <p>Completed CPIR No. 6 in third quarter of FY13.</p> <p>In-Progress Review (IPR) in second quarter of FY14.</p> <p>Engineering Evaluation in fourth quarter of FY14.</p> <p>DDG 115 AEGIS Light-Off (ALO) in second quarter of FY15.</p> <p>Major Milestones for Aegis Baseline 7.2 (formerly 7.1R Backfit):</p> <p>IPR No. 4 Status Update in fourth quarter of FY13.</p> <p>IPR No. 5 Status Update in second quarter of FY14.</p> <p>AEGIS 7.2 ILS Certification in second quarter of FY14.</p> <p>Combat System Certification Panel in fourth quarter of FY14.</p> <p>Warfare System Installation Assessment in fourth quarter of FY14.</p> <p>Initial Installation on lead ship in fourth quarter of FY14.</p> <p>Underway Assessment on lead ship in second quarter of FY15.</p> <p>Major Milestones for Accelerated Mid Term Interoperability Improvement Plan (AMIIP):</p> <p>Completed MST No. 3 (now MST FY13-1) in first quarter of FY13.</p> <p>Completed MST FY13-2 in second quarter of FY13.</p> <p>Completed Baseline 6.3.3, 7.1R.1, 8.1.2 Combat System Certification in second quarter of FY13.</p> <p>Completed Baseline 6.3.3, 7.1R.1, 8.1.2 Warfare System Certification in third quarter of FY13.</p> <p>Major Milestones for Naval Integrated Fire Control - Counter Air (NIFC-CA):</p> <p>White Sands Missile Range (WSMR) #1 second quarter of FY13.</p> <p>At-Sea Test #1 fourth quarter of FY13.</p> <p>White Sands Missile Range (WSMR) #2 first quarter of FY14.</p> <p>At-Sea Test #2 third quarter of FY14.</p> <p>Major Milestones for Advanced Capability Build - 16 (ACB16):</p> <p>In Progress Review #1 fourth quarter FY13.</p> <p>System Requirements Review (SRR) first quarter FY14.</p> <p>System Functional Review (SFR) second quarter FY14.</p> <p>Preliminary Design Review (PDR) first quarter FY15.</p> <p>Critical Design Review (CDR) fourth quarter FY15.</p>		

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<p>Test Readiness Review (TRR) fourth quater FY16. Deomonstraton Test (DEMO) second quarter FY17. AEGIS Light-Off (ALO) second quarter FY18. Combat System Ship Qualification Test (CSSQT) thrid quarter FY19.</p> <p>Major Milestones for Future Combat System Development: Contract Award (CA) second quarter FY13. Combat System In Progress Review #2 (IPR) fourth quarter FY13. Combat System In Progress Review #3 (IPR) fourth quarter FY14. System Requirements Review (SRR) second quarter FY16. System Functional Review (SFR) third quarter FY16. Preliminary Design Review (PDR) second quarter FY17. Critical Design Review (CDR) second quarter FY18.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
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Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	SS/CPAF	Lockheed Martin : Moorestown, NJ	1,778.707	138.277	Oct 2012	120.230	Oct 2013	107.114	Oct 2014	-		107.114	Continuing	Continuing	Continuing
Systems Engineering	SS/CPFF	APL : Baltimore, MD	51.315	9.548	Oct 2012	6.854	Oct 2013	7.398	Oct 2014	-		7.398	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Dahlgren, VA	308.791	39.173	Oct 2012	29.980	Oct 2013	30.316	Oct 2014	-		30.316	Continuing	Continuing	Continuing
Systems Engineering	SS/CPAF	BAE Systems : Rockville, MD	40.194	4.177	Oct 2012	4.294	Oct 2013	3.237	Oct 2014	-		3.237	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Port Hueneme, CA	56.963	6.346	Oct 2012	6.600	Oct 2013	4.941	Oct 2014	-		4.941	Continuing	Continuing	Continuing
Systems Engineering	WR	NWAS : Corona, CA	27.791	1.118	Oct 2012	1.157	Oct 2013	0.866	Oct 2014	-		0.866	Continuing	Continuing	Continuing
Systems Engineering	WR	SPAWAR : San Diego, CA	9.769	0.794	Oct 2012	0.814	Oct 2013	0.615	Oct 2014	-		0.615	Continuing	Continuing	Continuing
Systems Engineering	WR	Various : Various	113.389	17.234	Oct 2012	16.334	Oct 2013	13.355	Oct 2014	-		13.355	Continuing	Continuing	Continuing
Award fees	SS/CPAF	Lockheed Martin : Moorestown, NJ	209.089	8.230	Oct 2012	8.498	Oct 2013	6.432	Oct 2014	-		6.432	Continuing	Continuing	Continuing
Award fees	SS/CPAF	BAE Systems : Rockville, MD	2.155	0.161	Oct 2012	0.163	Oct 2013	0.124	Oct 2014	-		0.124	Continuing	Continuing	Continuing
Award fees	SS/CPAF	Alion Science : Washington DC	2.134	-	Oct 2012	-	Oct 2013	-		-		-	-	2.134	-
Award fees	WR	Various : Various	7.666	0.560	Oct 2012	0.570	Oct 2013	0.433	Oct 2014	-		0.433	Continuing	Continuing	Continuing
Subtotal			2,607.963	225.618		195.494		174.831		-		174.831	-	-	-
Remarks Various Performing Activities consist of multiple performing activities with funding for each no greater than \$1 million per year. These larger performing activities include CDSA Dam Neck and NSWC/Crane.															
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	WR	Department of Interior : Boise, Idaho	38.545	1.070	Oct 2012	1.103	Oct 2013	0.830	Oct 2014	-		0.830	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>						Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>			
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	WR	NAVAIR : Pax River, MD	12.241	0.758	Oct 2012	0.777	Oct 2013	0.587	Oct 2014	-		0.587	Continuing	Continuing	Continuing
Subtotal			50.786	1.828		1.880		1.417		-		1.417	-	-	-
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	SS/CPAF	Alion Science : Washington DC	23.951	1.873	Oct 2012	1.936	Oct 2013	1.451	Oct 2014	-		1.451	Continuing	Continuing	Continuing
Program Management Support	SS/CPAF	SAIC : Mclean, VA	8.798	3.122	Oct 2012	3.218	Oct 2013	2.419	Oct 2014	-		2.419	Continuing	Continuing	Continuing
DAWDF	Various	Various : Various	0.907	-		-		-		-		-	-	0.907	-
Subtotal			33.656	4.995		5.154		3.870		-		3.870	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2,692.405	232.441		202.528		180.118		-		180.118	-	-	-
Remarks															

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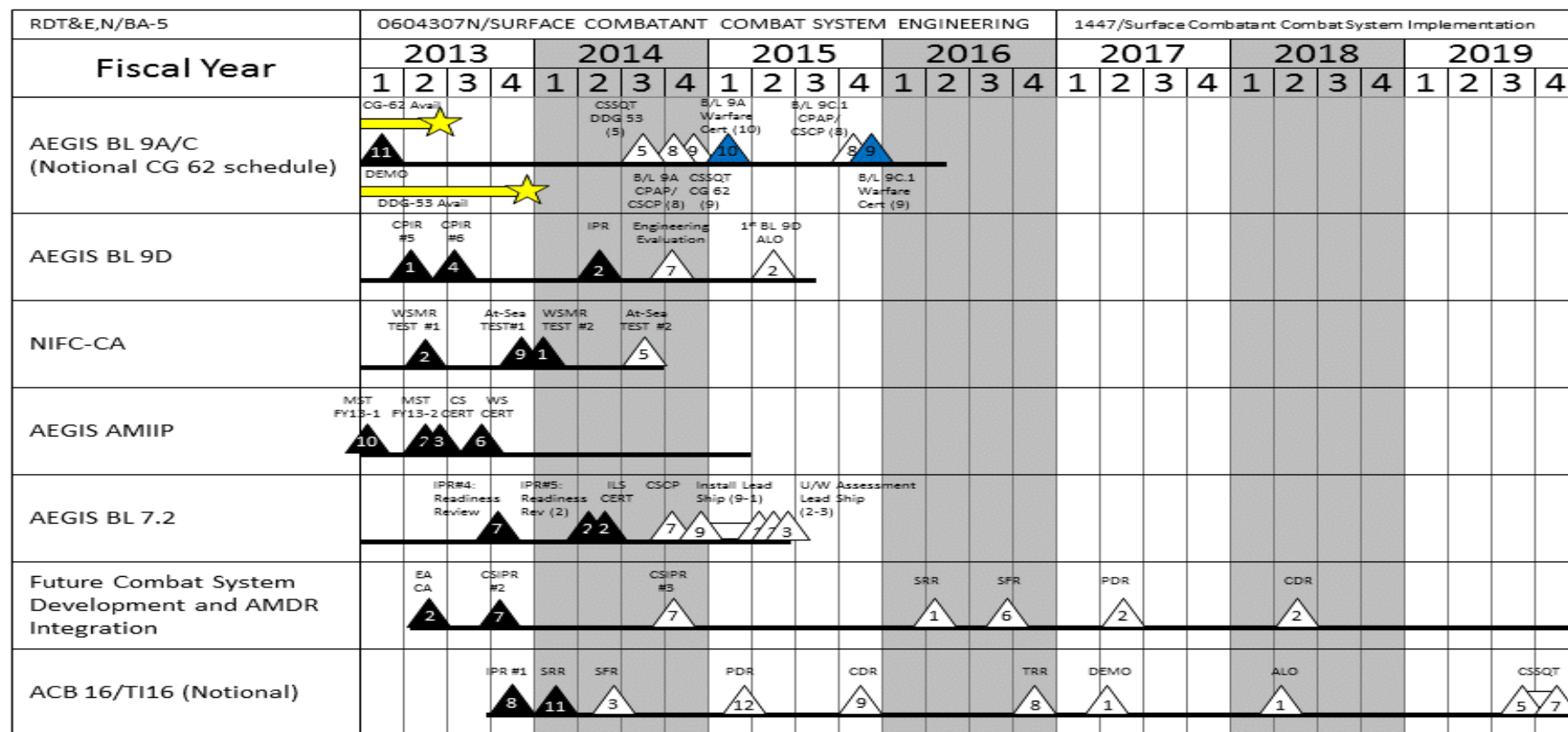
Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0604307N / Surface Combatant Cmbt
Sys Eng

Project (Number/Name)
1447 / Surf Combatant Combat System Imp



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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1447				
ADVANCED CAPABILITY BUILD 12 9 A/C DEMONSTRATION	1	2013	1	2013
ADVANCED CAPABILITY BUILD 12 COMBAT SYSTEM SHIPS QUALIFICATION TRIAL (DDG 53)	3	2014	4	2014
ADVANCED CAPABILITY BUILD 12 COMBAT SYSTEM SHIPS QUALIFICATION TRIAL (CG 62)	4	2014	4	2014
ADVANCED CAPABILITY BUILD 12 9A COMPUTER PROGRAM ACCEPTANCE PANEL/COMBAT SYSTEMS CERTIFICATION PANEL	4	2014	4	2014
ADVANCED CAPABILITY BUILD 12 9A WARFARE CERTIFICATION	1	2015	1	2015
ADVANCED CAPABILITY BUILD 12 9C.1 COMPUTER PROGRAM ACCEPTANCE PANEL/COMBAT SYSTEMS CERTIFICATION PANEL	4	2015	4	2015
ADVANCED CAPABILITY BUILD 12 9C.1 WARFARE CERTIFICATION	4	2015	4	2015
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #5	2	2013	2	2013
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #6	3	2013	3	2013
ADVANCED CAPABILITY BUILD 12 B/L 9D IN PROGRESS REVIEW	2	2014	2	2014
ADVANCED CAPABILITY BUILD 12 B/L 9D ENGINEERING EVALUATION	4	2014	4	2014
ADVANCED CAPABILITY BUILD 12 B/L 9D DDG 113 ALO	2	2015	2	2015
NIFC-CA WSMR TEST #1	2	2013	2	2013
NIFC-CA AT-SEA TEST #1	4	2013	4	2013
NIFC-CA WSMR TEST #2	1	2014	1	2014
NIFC-CA AT-SEA TEST #2	3	2014	3	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng		Project (Number/Name) 1447 / Surf Combatant Combat System Imp	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROJECT MULTI-SITE TEST (MST) #3 (now MST FY13-1)		1	2013	1	2013
ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROJECT MST FY13-2		2	2013	2	2013
ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROJECT BL 6.3.3, 7.1R.1, 8.1.2 COMBAT SYSTEM CERTIFICATION		2	2013	2	2013
ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROJECT BL 6.3.3, 7.1R.1, 8.1.2 WARFARE SYSTEM CERTIFICATION		3	2013	3	2013
AEGIS 7.2 BACKFIT IN-PROCESS REVIEW #4		4	2013	4	2013
AEGIS 7.2 BACKFIT IN-PROCESS REVIEW #5		2	2014	2	2014
AEGIS 7.2 ILS CERTIFICATION		2	2014	2	2014
AEGIS 7.2 COMBAT SYSTEM CERTIFICATION PANEL		4	2014	4	2014
AEGIS 7.2 WARFARE SYSTEM INSTALLATION ASSESSMENT ON LEAD SHIP		4	2014	4	2014
AEGIS 7.2 INITIAL INSTALLATION ON LEAD SHIP		4	2014	2	2015
AEGIS 7.2 UNDERWAY ASSESSMENT ON LEAD SHIP		2	2015	2	2015
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM COMBAT SYSTEM ENGINEERING AGENT CONTRACT AWARD		2	2013	2	2013
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION IN-PROGRESS REVIEW NO. 2		4	2013	4	2013
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION IN-PROGRESS REVIEW #3		4	2014	4	2014
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM REQUIREMENTS REVIEW		2	2016	2	2016
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM FUNCTIONAL REVIEW		3	2016	3	2016
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION PRELIMINARY DESIGN REVIEW		2	2017	2	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng		Project (Number/Name) 1447 / Surf Combatant Combat System Imp	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION CRITICAL DESIGN REVIEW		2	2018	2	2018
ADVANCED CAPABILITY BUILD 16 IN-PROGRESS REVIEW #1		4	2013	4	2013
ADVANCED CAPABILITY BUILD 16 SYSTEM REQUIREMENTS REVIEW		1	2014	1	2014
ADVANCED CAPABILITY BUILD 16 SYSTEM FUNCTIONAL REVIEW		2	2014	2	2014
ADVANCED CAPABILITY BUILD 16 PRELIMINARY DESIGN REVIEW		1	2015	1	2015
ADVANCED CAPABILITY BUILD 16 CRITICAL DESIGN REVIEW		4	2015	4	2015
ADVANCED CAPABILITY BUILD 16 TEST READINESS REVIEW		4	2016	4	2016
ADVANCED CAPABILITY BUILD 16 DEMONSTRATION		2	2017	2	2017
ADVANCED CAPABILITY BUILD 16 AEGIS LIGHT-OFF		2	2018	2	2018
ADVANCED CAPABILITY BUILD 16 CSSQT		3	2019	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng				Project (Number/Name) 3357 / Aegis Training Improvement Program			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3357: Aegis Training Improvement Program	-	-	3.770	8.994	-	8.994	5.253	2.781	2.117	2.160	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The AEGIS Training Improvement project will provide enhancements to training components and increase training functionality in conjunction with AEGIS ACB16 development and integration. These enhancements will address current and future training requirements and implement new functionality to support more complex training requirements related to Underwater, Surface, and other warfighter upgrades.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: AEGIS Training Improvement and ACB 16 integration										-	3.770	8.994
										Articles: -	-	-
Description: AEGIS training Improvement project will provide enhancements to training components and increase training functionality in conjunction with AEGIS ACB16 development and Integration. These enhancements will address current and future training requirements and implement new functionality to support more complex training requirements related to Underwater, Surface and other warfighter upgrades.												
FY 2013 Accomplishments: N/A												
FY 2014 Plans: Support System Engineering requirements to address AEGIS ACB16 System Requirements Review (SRR) currently scheduled for the first quarter of FY14. Provides System Engineering Support to complete functional requirements allocation in support of AEGIS ACB16 System Functional Review (SFR) scheduled for the third quarter of FY14. Provide system engineering support to training improvement integration within AEGIS ACB16.												
FY 2015 Plans: Provide system engineering support to training improvement integration within AEGIS ACB16. Provide Computer Program updates to implement training requirements associated with AEGIS ACB16 Program of Record. Prepare for and support Preliminary Design Review (PDR) and Critical Design Review (CDR) for AEGIS ACB16. Support integration of Combat System training capabilities defined.												
Accomplishments/Planned Programs Subtotals										-	3.770	8.994

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement Program</i>

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

N/A

Remarks

D. Acquisition Strategy

Efforts will be completed on various contracts to support requirements updates to multiple products that will support Training Integration and Implementation within AEGIS ACB16.

E. Performance Metrics

Training Improvement Program efforts will complete major development milestones.

System Requirements Review first quarter of FY14.

System Functional Review third quarter of FY14.

Preliminary Design Review second quarter of FY15.

Critical Design Review fourth quarter of FY15.

Test Readiness Review fourth quarter of FY16.

Advanced Capability Build 16 AEGIS Light-Off third quarter of FY17.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy													Date: March 2014		
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604307N / Surface Combatant Cmbt Sys Eng						Project (Number/Name) 3357 / Aegis Training Improvement Program					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	Various : Various	0.000	-		1.993	Oct 2013	4.046	Oct 2014	-		4.046	Continuing	Continuing	Continuing
Subtotal			0.000	-		1.993		4.046		-		4.046	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering	Various	Various : Various	0.000	-		1.497	Oct 2013	4.380	Oct 2014	-		4.380	Continuing	Continuing	Continuing
Subtotal			0.000	-		1.497		4.380		-		4.380	-	-	-
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Support	C/CPAF	SAIC : McLean VA.	0.000	-		0.200	Nov 2013	0.406	Oct 2014	-		0.406	Continuing	Continuing	Continuing
Professional Support	C/CPAF	ALION : Washington DC	0.000	-		0.080	Nov 2013	0.162	Oct 2014	-		0.162	Continuing	Continuing	Continuing
Subtotal			0.000	-		0.280		0.568		-		0.568	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		3.770		8.994		-		8.994	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604307N / *Surface Combatant Cmbt Sys Eng*

Project (Number/Name)

3357 / *Aegis Training Improvement Program*

RDT&E,N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																3357/AEGIS Training Improvement Program											
Fiscal Year	2013				2014				2015				2016				2017				2018				2019			
	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
AEGIS Training Improvement Program (Notional)					SRR		SFR		PDR		CDR					TRR				ALO								

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement Program</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3357</i>				
System Requirements Review	1	2014	1	2014
System Functional Review	3	2014	3	2014
Preliminary Design Review	2	2015	2	2015
Critical Design Review	4	2015	4	2015
Test Readiness Review	4	2016	4	2016
Advanced Capability Build 16 AEGIS Light-off	3	2017	3	2017