

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng							
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	2,480.437	211.968	260.616	240.298	-	240.298	204.919	317.664	220.464	245.454	Continuing	Continuing
1447: Surf Combatant Combat System Imp	2,480.437	211.968	260.616	236.528	-	236.528	195.914	312.413	217.682	243.334	Continuing	Continuing
3357: Aegis Training Improvement Program	0.000	0.000	0.000	3.770	-	3.770	9.005	5.251	2.782	2.120	Continuing	Continuing
MDAP/MAIS Code(s): 180												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total				
Previous President's Budget				223.217	260.616	253.166	-	253.166				
Current President's Budget				211.968	260.616	240.298	-	240.298				
Total Adjustments				-11.249	0.000	-12.868	-	-12.868				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-5.700	0.000							
• SBIR/STTR Transfer				-5.549	0.000							
• Program Adjustments				0.000	0.000	-11.264	-	-11.264				
• Rate/Misc Adjustments				0.000	0.000	-1.604	-	-1.604				
Change Summary Explanation												
Programmatic changes are primarily associated with future ACB development reductions.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng				PROJECT 1447: Surf Combatant Combat System Imp			
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
1447: Surf Combatant Combat System Imp	2,480.437	211.968	260.616	236.528	-	236.528	195.914	312.413	217.682	243.334	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

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

A. Mission Description and Budget Item Justification

This project provides Cruiser & Destroyer 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 AWS and ACS changes. The ACS capabilities have continually evolved. Baseline (BL) 2 on Guided Missile Cruisers (CG) 52-58 introduced the Vertical Launch System (VLS), Tomahawk Weapon System, and Anti-Submarine Warfare (ASW) upgrades. BL 3 (CG 59-64) introduced the AN/SPY-1B Radar, AN/UYQ-21 consoles, and AN/UYK-43 computers. BL 4 (CG 65-73) introduced the production of AN/UYK-43/44 computers with superset computer programs developed for the Guided Missile Destroyer (DDG) 51. BL 5 was introduced in FY1992 DDGs and included the Joint Tactical Information Distribution System (JTIDS), Tactical Data Information Link (TADIL)-16, C2P, Combat Direction Finding, Tactical Data Information Exchange System, AN/SLQ-32 (V)3 Active Electronic Counter Countermeasures, and AEGIS Extended-Range (ER) Missile. BL 5 was developed in two steps (Phase 1 and Phase 3): Phase 1 integrated AEGIS ER and supported the Missile Initial Operating capability; Phase 3 integrated system upgrades including Defensive Electronic Attack, Track Load Control Algorithms, and Track Initiation Processor (integrated on BL 5 Phase 3, DDGs 68+); JTIDS and the OJ-663 color display Tactical Graphics capability into the ACS. BL 5 Phase 3 is now resident on baseline 3 and 4 CGs and DDG 51-78. BL 6 Phase 1 introduced Commercial Off-The-Shelf (COTS), Fiber Data Distribution System (FDDI) Local Area Network (LAN), UYQ-70 consoles, Cooperative Engagement Capability (CEC) for CGs, and an adjunct COTS computer for Aegis Display System (ADS). It supported OPEVAL of CEC in CGs 66 and 69 and was introduced in the DDG 51 class beginning with DDG 79. BL 6 Phase 1 is now resident on CGs 59, 65, 66, 68, 69, and 71. BL 6 Phase 3 was introduced on DDGs 85-90 and was back-fitted onto DDGs 79-84. BL 6 Phase 3 upgrades included embarked helicopters, Fiber Optic Data Multiplexing System (FODMS), implementation of affordability initiatives, adjunct computers for all AWS elements, CEC for DDGs and Battle Force Tactical Trainer (BFTT), ADS, Evolved Sea Sparrow Missile (ESSM) upgrades Phase 1, Advanced Tomahawk Weapon Control System (ATWCS) Phase II, Fire Control System Upgrades, and Joint Maritime Command Information System (JMCIS). BL 7 Phase 1 is installed in the DDG 51 class beginning with DDG 91-102. Major BL 7 upgrades include but are not limited to introduction and integration of new radar (AN/SPY-1D(V) upgrade), replacement of all UYK-43 and adjunct computers with a COTS-based advanced computing infrastructure, AN/SQQ-89(V)15, and the Remote Mine Hunting System. BL 7P1R (DDG 103-112) upgraded the computing infrastructure, Close-in Weapon System (CIWS), Air Control, and introduced Open Architecture (OA) developed products into the baseline.

The 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. ACB08/TI08 (Cruiser Modernization) consists of an upgraded computing infrastructure and AEGIS BL 8 computer program enhancements to existing warfighting capabilities on CG 52-58. ACB12/TI12 (Aegis Modernization) consists of an upgraded computing infrastructure and AEGIS BL 9A/C computer program enhancements to provide increased warfighting

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng	PROJECT 1447: Surf Combatant Combat System Imp		
capabilities which will modernize CG 59-73 and DDG 51-78. AEGIS BL 9A/C/D Destroyer upgrades will consist of Naval Integrated Fire Control-Counter Air (NIFC-CA), Standard Missile Block 6 (SM-6), Common Display System (CDS), Common Processing System (CPS), Multi-Mission Signal Processor (MMSP), and Ballistic Missile Defense (BMD). AEGIS BL 9A Cruiser Upgrades will consist of NIFC-CA, SM-6, CDS, and CPS. AEGIS BL 7.2 will develop a computer program that will port into the BL 7.1.3 and BL 7.1R hardware configurations to address fleet-reported deficiencies related to sustainability, maintainability, interoperability, and stability on DDGs 91-112. Accelerated Mid-Term Interoperability Improvement Plan (AMIIP) provides computer program updates to address design issues specific to interoperability in Shipboard Gridlock System/Auto-correlator (SGS/AC) and Aegis BL 6.3, 7.1.3, 7.1R, 8.1 and 9A/C/D. ACB16/TI16 will provide warfighter upgrades to AEGIS Destroyers to include Ballistic Missile Defense (BMD), Standard Missile Integration, and other enhancements to address emerging threats. Increase Fleet Firing events to validate Aegis Combat System updates and enhancements.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: AEGIS DEVELOPMENT SUPPORT		35.064	36.668	46.582
Articles:		0	0	0
FY 2012 Accomplishments: Provided AEGIS development support for the following: CSEDS, Program Generation Center, and Computer Program Test Site (CPTS) in support of AEGIS computer program development, testing, and integration for all AWS products. Continued to provide systems engineering for labs and field activities (to include support services) and provide program management support, modeling & simulation, requirements management, warfighting capability integration impacts, 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 in-service AEGIS Ships and address computer program modification to enable integration of replacements parts. AEGIS development support in FY12 is primarily for AEGIS BL 9A/C/D, AEGIS BL 6.3, AEGIS BL 7.2, and future combat system development efforts. Provided system engineering efforts to review and award AEGIS competitive contract to support future development efforts.				
FY 2013 Plans: Plan to provide AEGIS development support for the following: CSEDS, Program Generation Center, and CPTS in support of AEGIS computer program development, testing, and integration for all AWS products. Continue to provide systems engineering for labs and field activities (to include support services) and provide program management support, modeling & simulation, requirements management, warfighting capability integration impacts, 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 in-service AEGIS Ships and address computer program modification to enable integration of replacements parts. AEGIS development support in FY13 is primarily for AEGIS BL 9A/C/D, AEGIS BL 6.3, 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, and CPTS in support of AEGIS computer program development, testing, and integration for all AWS products. Continue to provide systems engineering				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng	PROJECT 1447: Surf Combatant Combat System Imp		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
for labs and field activities (to include support services) and provide program management support, modeling & simulation, requirements management, warfighting capability integration impacts, 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 in-service AEGIS Ships and address computer program modification to enable integration of replacements parts. AEGIS development support in FY14 is primarily for AEGIS BL 9A/C/D, AEGIS BL 6.3, AEGIS BL 7.2, and future combat system development efforts. Increase Fleet Firing events to validate Aegis Combat System updates and enhancements.				
Title: ADVANCED CAPABILITY BUILD 08 Articles: FY 2012 Accomplishments: Address critical computer program discrepancies related to upgraded capabilities integrated within the AEGIS B/L 8 combat system configuration.		0.700 0	0.000	0.000
Title: TECHNOLOGY INSERTION 12 Articles: FY 2012 Accomplishments: Continued to provide system engineering required for integration of COTS technology including CDS, CPS, and other COTS hardware associated with the AEGIS Weapon System. Continued to support system engineering review Test Readiness Review (TRR), System Functional Test (SFT), and Build 9 Mission Readiness Assessment (MRA). Continued to support ACB12 system engineering to developed and integrated increased capabilities. Continued computer program development efforts related to AEGIS ACB12. Continued testing and integration of AEGIS ACB12 capabilities identified. FY 2013 Plans: Continue systems engineering support to ACB12 developed and integrated capabilities. Continue computer program development efforts related to AEGIS ACB12. Continue testing and integration of AEGIS ACB12 capabilities identified. Support Build 11 and 13 MRA. Execute AEGIS Weapon System demonstration to support system level testing. FY 2014 Plans: Continue systems engineering efforts to support ACB12 integration.		1.721 0	1.473 0	0.900 0
Title: ADVANCED CAPABILITY BUILD 12 (BL 9A/C) Articles: FY 2012 Accomplishments: Continued to provide system engineering to support B/L 9A/C Aegis Light-Off/System Functional Test (ALO/SFT), IRD CG 60, CG 62, DDG 53, and MRA for Build 9. Continued to support ACB 12 system engineering to develop and integrate capabilities.		73.724 0	125.010 0	54.900 0

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng	PROJECT 1447: Surf Combatant Combat System Imp		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014	
Continued computer program development efforts related to AEGIS B/L 9A/C. Continued testing and integration of AEGIS ACB 12 identified capabilities. Executed AEGIS Weapon System evaluations to support system level testing. FY 2013 Plans: Continue to provide system engineering to support Build 11 MRA, B/L 9A/C Demonstration, and underway test events on CG 62, CG 60, and DDG 53. Continue to support ACB 12 system engineering to develop and integrate increased capabilities. Continue computer program development efforts related to AEGIS B/L 9A/C. Continue testing and integration of AEGIS ACB 12 identified capabilities. Provide additional Post-availability Underway testing events to evaluate and correct B/L 9A/C Computer Program. Provide additional Combat System suite procurement to support AEGIS ACB 12 development and integration efforts. Equipment suite include MMSP, CDS, CPS, Mission Critical Enclosure (MCE), and other network switches to support development testing. 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 Qualification Tests (CSSQTs) for CG 62, CG 60, DDG 53, and B/L 9A Operational Testing. Complete procurement of AEGIS weapon system elements to support future capability upgrades and enhancements.					
Title: ADVANCED CAPABILITY BUILD 12 (BL 9D) Articles:		24.510 0	34.440 0	33.370 0	
FY 2012 Accomplishments: Continued code capture and commence computer program development, commenced system test to evaluate DDG 113 configuration. Conducted Computer Program Increment Reviews (CPIRs) No. 3 in Oct 2011 and No. 4 in Feb 2012 to monitor the development and integration of DDG 113 combat system configuration. Supported Production Readiness Review (PRR) related to the DDG 113 Combat System. Continue to develop SPY-1D (V) Radar interface to the MMSP. FY 2013 Plans: Continue computer program development and system test required to evaluate DDG 113 configuration. Continue to develop SPY-1D (V) Radar interface to the MMSP. Support Continous Joint Assessment of Maintainability (CJAM), Jamming Exercise (JAMEX), and endurance testing related B/L 9 New Construction IAMD DDG. Begin BMD integration testing. Improve maintainability with Operational Readiness Test System (ORTS) Enhancements. Conduct Computer Program Increment Review (CPIRs) #6 (APR 2013) and #7 (AUG 2013) to approve code implementation. FY 2014 Plans: Continue computer program development and system test as required to evaluate DDG 113 unique configuration. Continue to develop SPY-1D (V) Radar interface to the MMSP. Support CJAM, JAMEX, and endurance testing related B/L 9 New					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng	PROJECT 1447: Surf Combatant Combat System Imp		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Construction IAMD DDG. Begin BMD integration testing. Execute any actions from readiness reviews as they relate to the DDG 113 Combat System.				
Title: NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR Articles: FY 2012 Accomplishments: Continued to support NIFC-CA development and integration within the AEGIS ACB12 combat system configuration. Upgrade White Sands Missile Range (WSMR) site to support NIFC-CA and SM6 integration within the AEGIS ACB12 combat system. Conduct Joint Land-Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) Demonstration and WSMR Testing to evaluate the development and integration of the NIFC-CA capability. FY 2013 Plans: Continue to support NIFC-CA development and integration within the AEGIS ACB12 combat system configuration. Maintain WSMR site to support NIFC-CA and SM6 integration within the AEGIS ACB12 combat system. Support NIFC-CA test events at WSMR and evaluate test results. Support NIFC-CA at-sea test.		10.844 0	8.826 0	0.000
Title: AEGIS BASELINE 7.2 Articles: FY 2012 Accomplishments: Completed IPRs Nos. 1, 2, and 3. Provided engineering effort to develop work package definition, identify specification changes, and define design information to port the AEGIS B/L 7.2 Computer Program into the AEGIS B/L 7.1.3 and B/L 7.1R Hardware configurations; addressed fleet reported deficiencies related to sustainability, maintainability, interoperability, and stability. Provided New Jersey site upgrades and initiated Virginia site upgrades to support development and test efforts related to AEGIS B/L 7.2. Initiated computer program development. FY 2013 Plans: Develop production engineering change proposals. Conduct IPR No 4. Continue computer program development. Continue developmental program test and integration efforts. Initiate Navy Performance Testing, and interoperability testing in conjunction with Accelerated Midterm Interoperability Improvement Project program. Initiate program Certification Assessments. Continue Virginia site upgrades to support development and test efforts, and initiate 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		19.500 0	18.500 0	22.900 0

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng	PROJECT 1447: Surf Combatant Combat System Imp		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Certification, deployment Software System Safety Technical Review Panel/ Weapon System Explosive Safety Review Board, Combat System Certification Panel, Warfare System Installation Assessments, and BL 7.2 installation on lead ship.				
Title: FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION Articles:		18.745 0	29.399 0	48.13 0
FY 2012 Accomplishments: Conducted FY12 Air Missile Defense Radar (AMDR) Combat System Integration In-Process Review (IPR) #1 of Combat System architectures, requirements and interfaces required for AMDR MS B; conducting critical studies in support of interface definition and AMDR PDR; identified Combat System Simulation concepts for Early Combat System Integration and Test required for AMDR MS C; development of Combat System Test Strategy underway.				
FY 2013 Plans: Conducted Air Missile Defense Radar (AMDR) Combat System Integration IPR #2; develop draft AMDR Combat System Interface Requirement Specifications (IRSs); support AMDR delta PDR; develop requirements and hold 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; conduct detailed design and software development for Combat System Simulator to support Early Combat System Integration and Test required for AMDR MS C; Above Water Sensor Coordinator (AWSC) requirements and architecture definition.				
Title: ACCELERATED MID-TERM INTEROPERABILITY IMPROVEMENT PLAN (AMIIP) Articles:		27.160 0	6.300 0	1.900 0
FY 2012 Accomplishments: Conducted Engineering Assessments No. 2 and No. 3, defined Specification Changes, developed scenarios, and reported metrics. Captured AMIIP builds into B/Ls 7.2 and 9A/C/D, verified and validated Computer Program Casualty Reports (CPCRs), conducted (mini) IPR#3, conducted Test Readiness Review, and conducted Flag Review #3. Conducted Multi-Site Test events #1, #2, and data analysis; conducted IPR No. 4, Flag Review #4, Mission Readiness Assessment. AMIIP efforts to date will culminate with final testing and demonstration during the Trident Warrior Fleet exercise completed August/4Q FY12.				
FY 2013 Plans: Conduct Engineering Assessment No. 4. Identify and make corrections in AEGIS and Ship Gridlock System (SGS) Auto Correlator (AC) computer programs based on Trident Warrior test results, conduct 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:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng				PROJECT 1447: Surf Combatant Combat System Imp				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
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. SSDS B/L 6 scheduled to certify for fielding third quarter FY14 (June).												
Title: ADVANCED CAPABILITY BUILD 16 Articles: 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 Funtional 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.										0.000	0.000	27.8450
Accomplishments/Planned Programs Subtotals										211.968	260.616	236.528
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• R&D 0604501N: Multi Mission Signal Processor	23.282	14.617	14.795		14.795	15.856	16.290	16.545	16.797	Continuing	Continuing	
• SCN 2122: DDG 51	2,081.432	3,514.941	2,004.115		2,004.115	2,877.046	3,443.611	3,732.564	3,693.696	Continuing	Continuing	
• OPN 0960: CG Modernization	557.563	101.000	10.539		10.539	79.058	10.992	0.000	0.000	Continuing	Continuing	
• OPN 5246: AEGIS Support Equipment	43.148	81.614	60.129		60.129	34.871	39.498	40.394	40.876	Continuing	Continuing	
• OPN 0900: DDG Modernization	126.373	452.371	285.994		285.994	517.265	469.890	530.225	801.286	Continuing	Continuing	
• R&D 0604378N PU 3159: NIFC-CA	28.279	39.974	21.413		21.413	21.414	25.503	21.190	17.275	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 program and equipment are												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 1447: <i>Surf Combatant Combat System Imp</i>
<p>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 Technical Insertions (TIs) using a contract to provide Combat System Engineering Agent (CSEA) services. Additional contracts will be awarded to address B/L 9A/C/D completion, Sites Management, and Future Combat System engineering efforts related to AMDR Integration and ACB16/TI16 development and test efforts.</p> <p>E. Performance Metrics</p> <p>Combat system development efforts will complete major development milestones.</p> <p>Major Milestones for ACB12 (B/L 9A/C):</p> <p>Completed Installation Readiness Decision #2 (now called CG60 IRD) third quarter of FY12.</p> <p>9A Aegis Light-off (now called CG62 ALO) fourth quarter of FY12.</p> <p>9C Aegis Light-off (now called DDG53 ALO) second quarter of FY13.</p> <p>9A/C Demonstration 1st quarter of FY13.</p> <p>9A Computer Program Acceptance Panel/Combat System Certification Panel third quarter of FY14.</p> <p>9C Computer Program Acceptance Panel/Combat System Certification Panel third quarter of FY15.</p> <p>Advanced Capability Build 12 CG 62 Combat System Ships Qualification Trial first quarter of FY14.</p> <p>Advanced Capability Build 12 DDG 53 Combat System Ships Qualification Trial third quarter of FY14.</p> <p>9A Warfare Certification fourth quarter of FY14.</p> <p>9C Warfare Certification fourth quarter of FY15.</p> <p>Major Milestones for B/L 9D (DDG 113):</p> <p>Completed CPIR No. 3 in first quarter of FY12.</p> <p>Completed Test Program Review (TPR) in first quarter of FY12</p> <p>Completed CPIR No. 4 in second quarter of FY12.</p> <p>TRR in first quarter of FY15.</p> <p>CPIR No. 5 in second quarter of FY13.</p> <p>CPIR No. 6 in third quarter of FY13.</p> <p>CPIR No. 7 in fourth quarter of FY13.</p> <p>DDG 113 Aegis Light-Off in second quarter of FY15.</p> <p>DDG 115 Aegis Light-Off in second quarter of FY15.</p> <p>DDG 114 Aegis Light-Off in fourth quarter of FY15.</p> <p>DDG 113/115 Sea Trials in first quarter of FY16.</p> <p>DDG 116 Aegis Light-Off in fourth quarter of FY16.</p> <p>DDG 113/115 CSSQT in first quarter of FY17.</p> <p>CSCP certification in third quarter FY17.</p> <p>Major Milestones for Aegis Baseline 7.2 (formerly 7.1R Backfit):</p>		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 1447: <i>Surf Combatant Combat System Imp</i>
<p>Completed IPR No. 1 PDR/CDR in first quarter of FY12. Completed IPR No. 2 Status Check in third quarter of FY12. Completed IPR No. 3 Status Check in fourth quarter of FY12. IPR No. 4 Status Update in third quarter of FY13. IPR No. 5 Status Update in first quarter of FY14. Warfare System Installation Assessment #1 in first quarter of FY14. ILS Certification in second quarter of FY14. Combat System Certification Panel in fourth quarter of FY14. Warfare System Installation Assessment #2 in fourth quarter of FY14. Initial Installation on lead ship in fourth quarter of FY14 Underway Assessment on lead ship in second quarter of FY15.</p> <p>Major Milestones for Accelerated Mid Term Interoperability Improvement Plan (AMIIP): Completed mini-IPR in first quarter of FY12. Completed Multi-Site Test (MST) No. 1 in second quarter of FY12. Completed IPR No. 3 in second quarter of FY12. Completed MST No. 2 and Flag Demonstration in third quarter of FY12. Completed IPR No. 4 in fourth quarter of FY12. Trident Warrior in fourth quarter of FY12. MST No. 3 in second quarter of FY13. Final Certification in third quarter of FY13.</p>		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng				PROJECT 1447: Surf Combatant Combat System Imp					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
Systems Engineering	SS/CPAF	Lockheed Martin:Moorestown, NJ	1,653.123	125.584	Oct 2011	154.985	Oct 2012	140.230	Oct 2013	-		140.230	Continuing	Continuing	Continuing
Systems Engineering	SS/CPFF	APL:Baltimore, MD	44.953	6.362	Oct 2011	10.705	Oct 2012	9.854	Oct 2013	-		9.854	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC:Dahlgren, VA	274.152	34.639	Oct 2011	43.865	Oct 2012	39.980	Oct 2013	-		39.980	Continuing	Continuing	Continuing
Systems Engineering	SS/CPAF	BAE Systems:Rockville, MD	36.411	3.783	Oct 2011	4.683	Oct 2012	4.294	Oct 2013	-		4.294	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC:Port Hueneme, CA	51.214	5.749	Oct 2011	7.149	Oct 2012	6.600	Oct 2013	-		6.600	Continuing	Continuing	Continuing
Systems Engineering	WR	NWAS:Corona, CA	26.651	1.140	Oct 2011	1.253	Oct 2012	1.157	Oct 2013	-		1.157	Continuing	Continuing	Continuing
Systems Engineering	WR	SPAWAR:San Diego, CA	9.399	0.370	Oct 2011	0.890	Oct 2012	0.814	Oct 2013	-		0.814	Continuing	Continuing	Continuing
Systems Engineering	WR	Various:Various	95.370	18.019	Oct 2011	19.323	Oct 2012	17.334	Oct 2013	-		17.334	Continuing	Continuing	Continuing
Award fees	SS/CPAF	Lockheed Martin:Moorestown, NJ	200.149	8.940	Oct 2011	9.306	Oct 2012	8.498	Oct 2013	-		8.498	Continuing	Continuing	Continuing
Award fees	SS/CPAF	BAE Systems:Rockville, MD	2.051	0.104	Oct 2011	0.180	Oct 2012	0.163	Oct 2013	-		0.163	Continuing	Continuing	Continuing
Award fees	SS/CPAF	Alion Science:Washington DC	1.830	0.304	Oct 2011	0.000	Oct 2012	0.000	Oct 2013	-		0.000	0.000	2.134	
Award fees	WR	Various:Various	6.878	0.788	Oct 2011	0.627	Oct 2012	0.570	Oct 2013	-		0.570	Continuing	Continuing	Continuing
Subtotal			2,402.181	205.782		252.966		229.494		0.000		229.494			
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.															

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>						PROJECT 1447: <i>Surf Combatant Combat System Imp</i>			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
Test and Evaluation	WR	Department of Interior:Boise, Idaho	37.690	0.855	Oct 2011	1.200	Oct 2012	1.103	Oct 2013	-		1.103	Continuing	Continuing	Continuing
Test and Evaluation	WR	NAVAIR:Pax River, MD	11.624	0.617	Oct 2011	0.850	Oct 2012	0.777	Oct 2013	-		0.777	Continuing	Continuing	Continuing
Subtotal			49.314	1.472		2.050		1.880		0.000		1.880			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
Program Management Support	SS/CPAF	Alion Science:Washington DC	22.199	1.752	Oct 2011	2.100	Oct 2012	1.936	Oct 2013	-		1.936	Continuing	Continuing	Continuing
Program Management Support	SS/CPAF	SAIC:Mclean, VA	5.836	2.962	Oct 2011	3.500	Oct 2012	3.218	Oct 2013	-		3.218	Continuing	Continuing	Continuing
DAWDF	Various	Various:Various	0.907	0.000		0.000		0.000		-		0.000	0.000	0.907	
Subtotal			28.942	4.714		5.600		5.154		0.000		5.154			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2,480.437	211.968		260.616		236.528		0.000		236.528			
Remarks															

UNCLASSIFIED

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

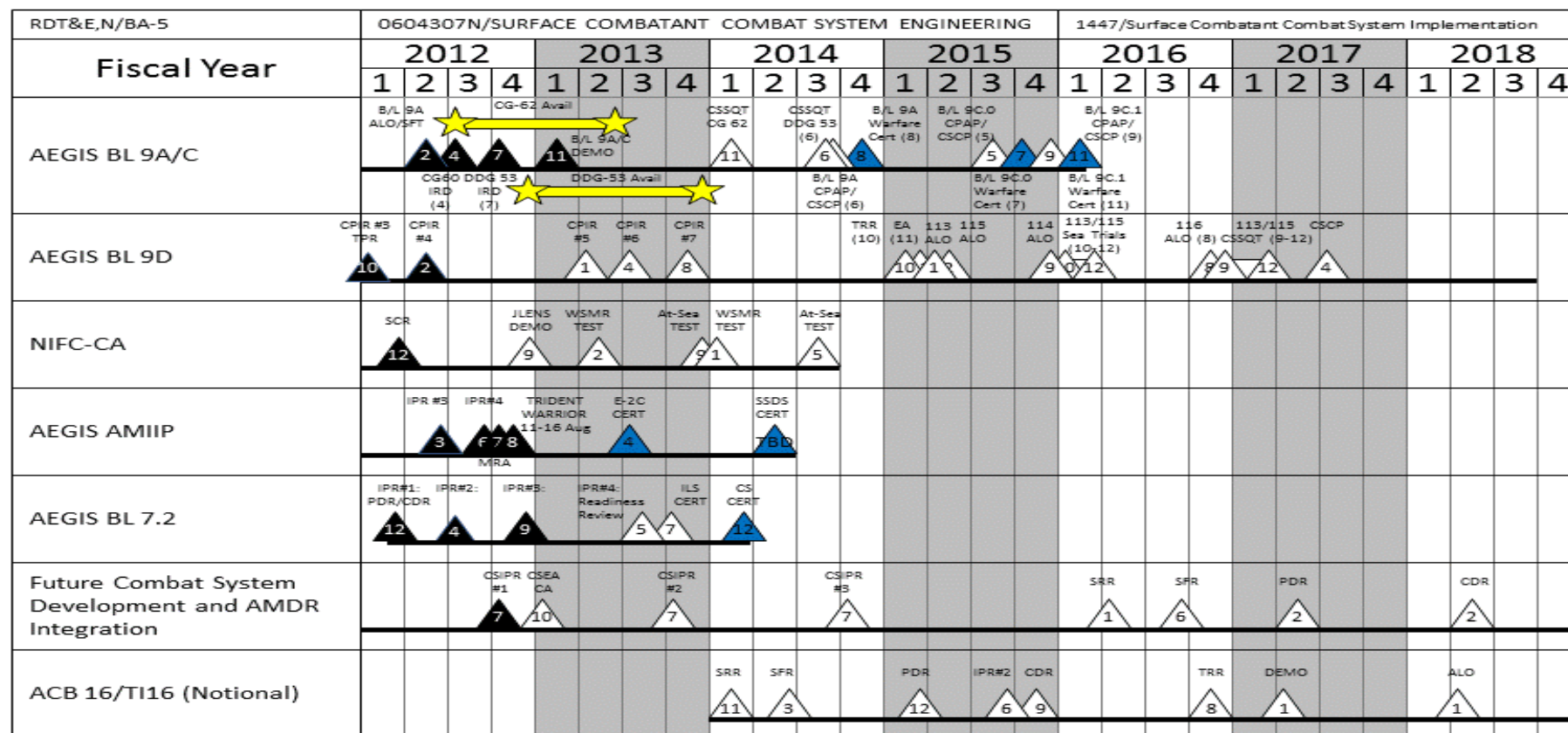
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604307N: Surface Combatant Cmbt
Sys Eng

PROJECT

1447: Surf Combatant Combat System Imp



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 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 INSTALLATION READINESS DECISION #1 (CG62 IRD)	1	2012	1	2012
ADVANCED CAPABILITY BUILD 12 INSTALLATION READINESS DECISION #2 (CG60 IRD)	3	2012	3	2012
ADVANCED CAPABILITY BUILD 12 9A CG 62 / AEGIS LIGHT OFF	4	2012	4	2012
ADVANCED CAPABILITY BUILD 12 9C DDG 53 / AEGIS LIGHT OFF	2	2013	2	2013
ADVANCED CAPABILITY BUILD 12 9 A/C DEMONSTRATION	1	2013	1	2013
ADVANCED CAPABILITY BUILD 12 9A COMPUTER PROGRAM ACCEPTANCE PANEL/COMBAT SYSTEMS CERTIFICATION PANEL	3	2014	3	2014
ADVANCED CAPABILITY BUILD 12 9C COMPUTER PROGRAM ACCEPTANCE PANEL/COMBAT SYSTEMS CERTIFICATION PANEL	3	2015	3	2015
ADVANCED CAPABILITY BUILD 12 COMBAT SYSTEM SHIPS QUALIFICATION TRIAL (CG 62)	1	2014	1	2014
ADVANCED CAPABILITY BUILD 12 9A WARFARE CERTIFICATION	4	2014	4	2014
ADVANCED CAPABILITY BUILD 12 9C WARFARE CERTIFICATION	4	2015	4	2015
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #3	1	2012	1	2012
ADVANCED CAPABILITY BUILD 12 B/L 9D TEST PROGRAM REVIEW	1	2012	1	2012
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #4	2	2012	2	2012
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #5	2	2013	2	2013

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng		PROJECT 1447: Surf Combatant Combat System Imp	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #6		3	2013	3	2013
ADVANCED CAPABILITY BUILD 12 B/L 9D COMPUTER PROGRAM INCREMENT REVIEW #7		4	2013	4	2013
ADVANCED CAPABILITY BUILD 12 B/L 9D TEST READINESS REVIEW		1	2015	1	2015
ADVANCED CAPABILITY BUILD 12 B/L 9D AEGIS LIGHT OFF (DDG 113 and 115)		2	2015	2	2015
ADVANCED CAPABILITY BUILD 12 B/L 9D AEGIS LIGHT OFF DDG 114		4	2015	4	2015
ADVANCED CAPABILITY BUILD 12 B/L 9D SEA TRIALS (DDG 113/115)		1	2016	1	2016
ADVANCED CAPABILITY BUILD 12 B/L 9D AEGIS LIGHT OFF DDG 116		4	2016	4	2016
ADVANCED CAPABILITY BUILD 12 B/L 9D COMBAT SYSTEM SHIPS QUALIFICATION TRIAL		4	2016	1	2017
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM MULTI-SITE TEST #1		2	2012	2	2012
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM IN-PROGRESS REVIEW #3		2	2012	2	2012
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM MULTI-SITE TEST #2		3	2012	3	2012
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM IN-PROGRESS REVIEW #4		3	2012	3	2012
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM TRIDENT WARRIOR		4	2012	4	2012
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM MULTI-SITE TEST #3		2	2013	2	2013
ACCELLERATED MID-TERM INTEROPERABILITY IMPROVEMENT PROGRAM COMBAT SYSTEM CERTIFICATION		3	2013	3	2013
AEGIS 7.2 BACKFIT IN-PROGRESS REVIEW #1 (PRELIMINARY DESIGN REVIEW/ CRITICAL DESIGN REVIEW)		1	2012	1	2012
AEGIS 7.2 BACKFIT IN-PROGRESS REVIEW #2 (STATUS CHECK)		3	2012	3	2012

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng		PROJECT 1447: Surf Combatant Combat System Imp	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
AEGIS 7.2 BACKFIT IN-PROGRESS REVIEW #3 (STATUS CHECK)		4	2012	4	2012
AEGIS 7.2 BACKFIT IN-PROGRESS REVIEW #4		3	2013	3	2013
AEGIS 7.2 WARFARE SYSTEM INSTALLATION ASSESSMENT No.1		1	2014	1	2014
AEGIS 7.2 BACKFIT IN-PROGRESS REVIEW No. 5		1	2014	1	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 No. 2		4	2014	4	2014
AEGIS 7.2 INITIAL INSTALLATION ON LEAD SHIP		4	2014	4	2014
AEGIS 7.2 UNDERWAY ASSESSMENT ON LEAD SHIP		2	2015	2	2015
ADVANCED CAPABILITY BUILD 16 SYSTEM REQUIREMENTS REVIEW		1	2014	1	2014
ADVANCED CAPABILITY BUILD 16 SYSTEM FUNCTIONAL REVIEW		3	2014	3	2014
ADVANCED CAPABILITY BUILD 16 PRELIMINARY DESIGN REVIEW		2	2015	2	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 AEGIS LIGHT-OFF		2	2018	2	2018
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION IN-PROGRESS REVIEW #1		4	2012	4	2012
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM COMBAT SYSTEM ENGINEERING AGENT CONTRACT AWARD		1	2013	1	2013
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM IN-PROGRESS REVIEW #2		4	2013	4	2013
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION SYSTEM 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

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng		PROJECT 1447: Surf Combatant Combat System Imp
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION PRELIMINARY DESIGN REVIEW		2	2017	2 2017
FUTURE COMBAT SYSTEM DEVELOPMENT AND INTEGRATION CRITICAL DESIGN REVIEW		2	2018	2 2018

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>				PROJECT 3357: <i>Aegis Training Improvement Program</i>			
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
3357: <i>Aegis Training Improvement Program</i>	0.000	0.000	0.000	3.770	-	3.770	9.005	5.251	2.782	2.120	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 ^{##} The FY 2014 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 2012	FY 2013	FY 2014
Title: AEGIS Training Improvement and ACB 16 integration <div style="text-align: right;">Articles:</div> 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 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.										0.000	0.000	3.770 0
Accomplishments/Planned Programs Subtotals										0.000	0.000	3.770
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 3357: <i>Aegis Training Improvement Program</i>
<u>D. Acquisition Strategy</u> Efforts will be completed on various contracts to support requirements updates to multiple products that will support Training Integration and Implementation within AEGIS ACB16.		
<u>E. Performance Metrics</u> 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 second quarter of FY18.		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)							R-1 ITEM NOMENCLATURE PE 0604307N: Surface Combatant Cmbt Sys Eng					PROJECT 3357: Aegis Training Improvement Program			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
Product Development	Various	Various:Various	0.000	0.000		0.000		1.993	Oct 2013	-		1.993	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		1.993		0.000		1.993			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
System Engineering	Various	Various:Various	0.000	0.000		0.000		1.497	Oct 2013	-		1.497	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		1.497		0.000		1.497			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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
Engineering Support	C/CPAF	SAIC:McLean VA.	0.000	0.000		0.000		0.200	Nov 2013	-		0.200	Continuing	Continuing	Continuing
Professional Support	C/CPAF	ALION:Washington DC	0.000	0.000		0.000		0.080	Nov 2013	-		0.080	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		0.280		0.000		0.280			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		0.000		3.770		0.000		3.770			
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 3357: <i>Aegis Training Improvement Program</i>	

RDT&E,N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																3357/AEGIS Training Improvement Program											
Fiscal Year	2012				2013				2014				2015				2016				2017				2018			
	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					

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604307N: <i>Surface Combatant Cmbt Sys Eng</i>	PROJECT 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