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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>
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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	590.348	20.041	64.079	50.209	-	50.209	82.731	109.465	70.286	173.386	Continuing	Continuing
0167: <i>5in Rolling Airframe Missile</i>	202.339	1.250	1.297	1.321	-	1.321	1.346	1.343	1.369	1.393	Continuing	Continuing
0173: <i>NATO Sea Sparrow</i>	363.226	10.791	32.005	48.888	-	48.888	81.385	108.122	68.917	153.993	Continuing	Continuing
3342: <i>Griffin Missile</i>	24.783	8.000	30.777	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.560
9999: <i>Congressional Adds</i>	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	18.000	Continuing	Continuing

[#] 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 program element provides funding for the development of systems that fulfill a portion of the third phase of the Ship Self Defense: Engage Hard Kill. Development in this line will focus on hard kill capabilities in which missiles are used to intercept incoming Anti-Ship Cruise Missiles (ASCM). Missile and system improvements necessary to meet their requirements are being addressed via NATO SEASPARROW Missile System (NSSMS) (0173), Rolling Airframe Missile (RAM) (0167), Phalanx CIWS SeaRAM (9853A), Griffin, Javelin and Spike missile (3342). Missile improvements include improved kinematic performance plus advanced seeker and low elevation fusing/warhead capability improvements. System improvements include incorporation of Phalanx detection capability into RAM system (SeaRAM), future concepts studies and self-destructing ammunition, and Future Phalanx Next Generation Improvements. New system developments include integration of Griffin missile into Patrol Coastal (PC) and Littoral Combat Ship Missile Module, and development and/or qualification of shoulder launched missile system.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	6.631	64.079	30.412	-	30.412
Current President's Budget	20.041	64.079	50.209	-	50.209
Total Adjustments	13.410	0.000	19.797	-	19.797
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	13.573	0.000			
• SBIR/STTR Transfer	-0.163	0.000			
• Program Adjustments	0.000	0.000	19.924	-	19.924
• Rate/Misc Adjustments	0.000	0.000	-0.127	-	-0.127

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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 0604756N: Ship Self Def (Engage: Hard Kill)	
Change Summary Explanation FY 2012 Reprogramming increase provides \$8.0M funding for Patrol Coastal (PC) Ship and Littoral Combat Ship Missile Module integration with Griffin Missile System (GMS) and \$5.6M for Stalker. FY 2014 increase provided for ESSM Blk 2 Upgrade		

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 0167: 5in Rolling Airframe Missile			
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
0167: 5in Rolling Airframe Missile	202.339	1.250	1.297	1.321	-	1.321	1.346	1.343	1.369	1.393	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 Rolling Airframe Missile (RAM) program is an International cooperative program with the government of the Federal Republic of Germany. The purpose of this program is to develop, test, and field a surface-to-air self-defense system utilizing a dual mode, passive Radio Frequency/Infrared RAM. The baseline system (Block 0) provides a self-defense system to counter anti-ship cruise missiles (ASCM). RAM Block 0/1 provide defense capability against active and passive anti-ship missiles, very low altitude missiles, and maneuvering missiles through the utilization of passive Radio Frequency and Infrared seekers and a maritime optimized fuse. The RAM Block 1A software update and the Mk 49 MOD 3 Launcher upgrade program provide an additional asymmetric capability against helicopters, aircraft and surface craft. The RAM Block 2 upgrade program is a Cooperative requirement of the U.S. and Federal Republic of Germany, as agreed to in an International Memorandum of Understanding (MOU), and allows RAM to counter emerging highly maneuverable ASCM threats utilizing advanced seekers while maintaining all the proven capabilities of RAM Block 0/1/1A's accurate terminal guidance, proven lethality, and no shipboard post launch dependence. Funding supports formal Developmental and Operational Testing (DT/OT) scheduled through FY16, data analysis, operational/test driven studies, support of Combat System performance analysis and identification of operationally relevant improvements.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Rolling Airframe Missile Block 2 Development and Test									1.135	1.218	1.242	
									Articles: 0	0	0	
FY 2012 Accomplishments: Funded Block 2 test and associated efforts to acheive Milestone C and Low Rate Inital Production decision.												
FY 2013 Plans: Fund Block 2 Integrated Operational Test and Evalustion (Development and Operational) IT-C1 and IT-C3 testing, analysis, incorporation of any changes and associated efforts to acheive Inital Operational Capability decision.												
FY 2014 Plans: Funds ongoing Integrated Operational Test and Evalustion (Development and Operational) IT-C2 testing, testing, analysis, incorporation of any changes and associated efforts to acheive Full Rate Production decision.												
Title: Rolling Airframe Missile Block 2 Travel									0.115	0.079	0.079	

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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 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>				PROJECT 0167: <i>5in Rolling Airframe Missile</i>			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2012	FY 2013	FY 2014	
Articles:								0	0	0	
<i>FY 2012 Accomplishments:</i> Funded Program Office travel to support program and testing efforts as required by program schedule.											
<i>FY 2013 Plans:</i> Funds Program Office travel to support program/testing as required by program schedule and in accordance with travel reduction mandate.											
<i>FY 2014 Plans:</i> Funds Program Office travel to support program/testing as required by program schedule and in accordance with travel reduction mandate.											
Accomplishments/Planned Programs Subtotals								1.250	1.297	1.321	
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN 5238: RAM	3.128	1.185	0.491		0.491	0.764	1.769	1.546	1.571	Continuing	Continuing
• WPN 2242: RAM	66.197	66.769	67.596		67.596	82.878	84.296	85.757	106.798	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The RAM Program uses directed sole source contracts with Raytheon Missile Systems Company, Tucson, AZ.											
E. Performance Metrics											
Successfully achieve Milestone C. Successfully achieve Development/Operational Milestones.											

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 0167: 5in Rolling Airframe Missile					
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
Primary Hardware Development	SS/CPFF	Raytheon:Tucson/Louisville	7.434	0.000		0.000		0.000		-		0.000	0.000	7.434	
Primary Hardware Dev Support	WR	China Lake:CA	1.266	0.000		0.000		0.000		-		0.000	0.000	1.266	
Block 1 Eng/Interface Support	SS/CPFF	Raytheon:Tucson/Louisville	0.400	0.000		0.000		0.000		-		0.000	0.000	0.400	
Block 1 MOD 3 Interface Support	C/CPFF	JHU/APL:MD	0.981	0.000		0.000		0.000		-		0.000	0.000	0.981	
Block 2 Upgrade	SS/CPAF	Raytheon:Tucson/Louisville	134.529	0.000		0.000		0.000		-		0.000	0.000	134.529	
Block 2 Upgrade	WR	China Lake/ NRL/ Dahlgren:CA/VA	15.244	0.000		0.000		0.000		-		0.000	0.000	15.244	
Block 2 Upgrade	C/CPFF	JHU/APL:md	1.300	0.000		0.000		0.000		-		0.000	0.000	1.300	
Block 2 Product Support	WR	China Lake/NRL/ Dahlgren:CA/VA	3.577	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			164.731	0.000		0.000		0.000		0.000		0.000			
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
Studies and Analyses	Various	various:various	1.210	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			1.210	0.000		0.000		0.000		0.000		0.000			
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 Support	C/CPFF	Raytheon:Tucson	13.787	1.083	Jan 2012	0.736	Nov 2012	0.646	Nov 2013	-		0.646	0.000	16.252	
FOT&E	WR	China Lake/PHD:CA/CA	4.674	0.000		0.000		0.000		-		0.000	0.000	4.674	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY							R-1 ITEM NOMENCLATURE					PROJECT				
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)							PE 0604756N: Ship Self Def (Engage: Hard Kill)					0167: 5in Rolling Airframe Missile				
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 Support	WR	China Lake/PHD:CA/CA	11.059	0.052	Jan 2012	0.200	Dec 2012	0.306	Dec 2013	-		0.306	Continuing	Continuing	Continuing	
Miscellaneous	Various	various:various	5.733	0.000		0.000		0.000		-		0.000	0.000	5.733		
Test Support	C/CPFF	JHU/APL:MD	0.000	0.000		0.282	Mar 2013	0.290	Dec 2013	-		0.290	0.000	0.572		
Subtotal			35.253	1.135		1.218		1.242		0.000		1.242				
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	
Travel	Allot	Program Office:VA	0.998	0.115	Jan 2012	0.079	Oct 2012	0.079	Oct 2013	-		0.079	Continuing	Continuing	Continuing	
Defense Acquisition Workforce Development Fund	Various	various:various	0.147	0.000		0.000		0.000		-		0.000	0.000	0.147		
Subtotal			1.145	0.115		0.079		0.079		0.000		0.079				
			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			202.339	1.250		1.297		1.321		0.000		1.321				
Remarks																

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

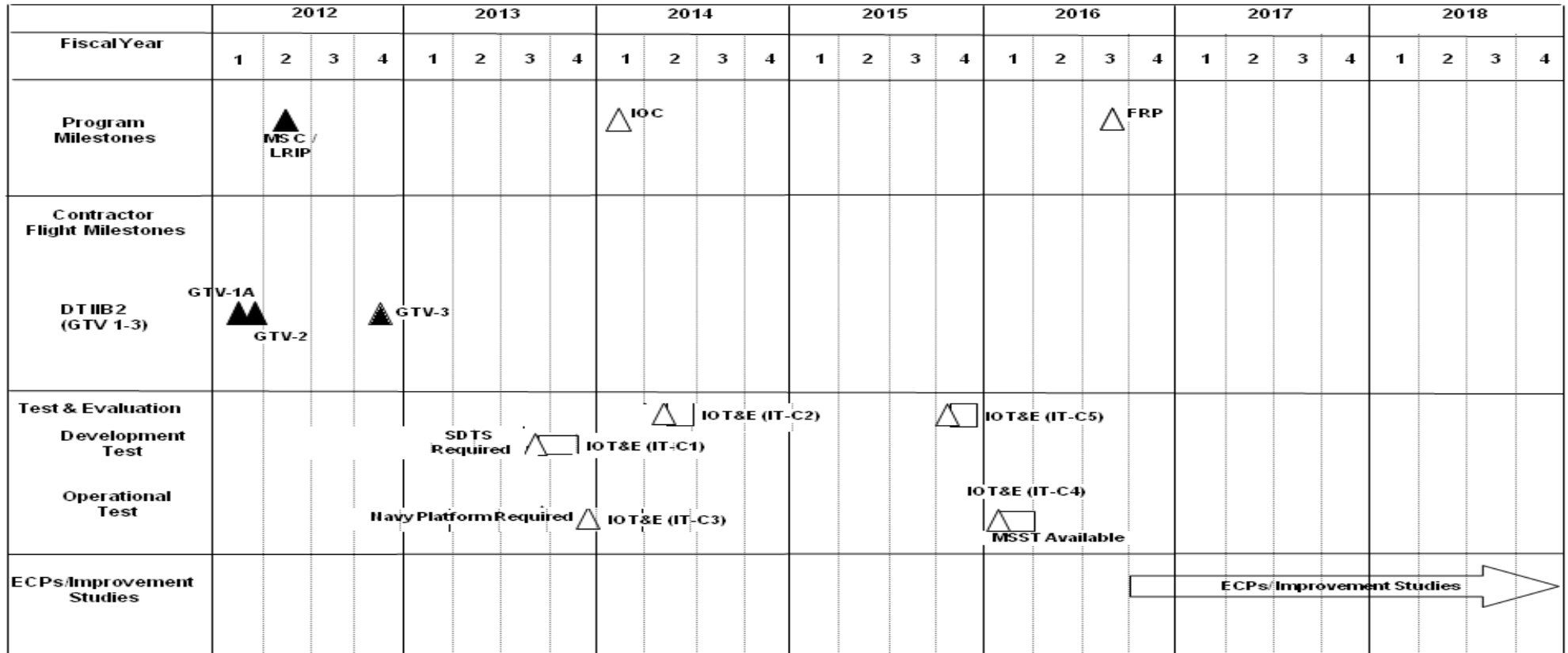
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604756N: Ship Self Def (Engage: Hard Kill)

PROJECT

0167: 5in Rolling Airframe Missile



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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 5: *System Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604756N: *Ship Self Def (Engage: Hard Kill)*

PROJECT

0167: *5in Rolling Airframe Missile*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0167				
MS C/LRIP	2	2012	2	2012
IOC	1	2014	1	2014
FRP	3	2016	3	2016
GTV-1A Firing	1	2012	1	2012
GTV-2 Firing	1	2012	1	2012
GTV-3 Firing	4	2012	4	2012
IOT&E (IT-C1)	3	2013	3	2013
IOT&E (IT-C3)	4	2013	4	2013
IOT&E (IT-C2)	2	2014	3	2014
IOT&E (IT-C5)	4	2015	4	2015
IOT&E (IT-C4)	1	2016	2	2016
ECPs/Improvement Studies	4	2016	4	2018

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 0173: NATO Sea Sparrow			
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
0173: NATO Sea Sparrow	363.226	10.791	32.005	48.888	-	48.888	81.385	108.122	68.917	153.993	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 encompasses five (5) primary efforts to enhance ship self defense:												
1. Evolved SEASPARROW Missile (ESSM): A cooperative effort among 10 NATO SEASPARROW Nations and the U.S., to improve the capability of the SEASPARROW Missile to counter the low altitude, highly maneuverable Anti-Ship Cruise Missile (ASCM) threat. The program consists of evolving the SEASPARROW Missile through the development of a new rocket motor with tail control; thrust vector control and ordnance (warhead) upgrade; modifications to the MK 41 Vertical Launch System (VLS) to fire from a single cell with 4 ESSM (QuadPack); and modifications to the NSSMS to provide ESSM capability.												
2. NATO SEASPARROW - MK 91 Rearchitecture: The MK 91 Rearchitecture Program integrates NSSMS into the Ship Self Defense System (SSDS) Architecture to provide ship missile defense utilizing an open architected system Technical Design Agent.												
3. NATO SEASPARROW Objective Configuration (OC). The OC Program consists of segmenting and automating the existing MK 57 NSSMS radars (MK 9 Track Illuminator System) and launchers (MK 29 Guided Missile Launching System). The program eliminates all MK 57 watch stations, reduces the required system hardware.												
4. STALKER LONG RANGE Electro Optic(EO)/Infra Red (IR)/Laser Range Finder (LRF) SYSTEM: Detects, acquires, classifies, identifies and determines intent of conventional,asymmetrical and advanced threats supporting Anti-Air Warefare (AAW), Anti-Surface Warefare (ASUW), Anti-terrorism/Force Protection (AT/FP) and Global War on Terrorism. Long Range Visible/Infra Red Sensors and Laser Range Finder provide multi-spectral target imagery and accurate range data in non-benign environments. Classification to the horizon, visual resolution of 1ft @ 10 nm and range resolution/rate within 1 ft/1kt/nm. This effort is in response to the NAVCENT Counter Swarm Urgent Operational Need (UON) to combat Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC).												
5. ESSM Block 2 Risk Reduction: ESSM Block 2 upgrade is a cooperative effort between U.S Navy and NATO SEASPARROW Consortium Nations. ESSM Block 2 upgrade replaces the largely obsolete guidance section with a dual mode Active/Semi-Active X-Band seeker capable of defeating future threat capabilities within the existing envelope, including; smaller signatures, increased raid sizes, and adverse environments including countermeasures. Threat types include; advanced Anti-Ship Cruise Missile (ASCM)s, Anti-Ship Ballistic Missiles (ASBMs), surface and asymmetrical.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: NATO Sea Sparrow integration testing									4.936	9.356	9.207	

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>		PROJECT 0173: <i>NATO Sea Sparrow</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
Articles:			0	0	0
<i>FY 2012 Accomplishments:</i> Conducted US-unique DT/OT firings from SDTS and carriers (DT/OT-D2, DT/OT-D3). Conducted ESSM Aegis integration testing and DT/OT firings on Cruisers and Destroyers and SDTS (DT/OT-D4, DT/OT-D5, DT/OT-D6) in support of Aegis Modernization Program. Conducted ESSM DT/OT firings on SDTS (DT/OT-D7) in support of SSDS Open Architecture integration and uplink development. This provided for the U.S. share of cooperative efforts associated with ESSM engineering studies and other development initiatives. <i>FY 2013 Plans:</i> Continue ESSM SSDS integration testing on CVN platforms. Conduct US-unique DT/OT firings from SDTS and carriers (DT/OT-D2, DT/OT-D3). Conduct ESSM Aegis integration testing and DT/OT firings on Cruisers and Destroyers and SDTS (DT/OT-D4, DT/OT-D5, DT/OT-D6) in support of Aegis Modernization Program. Conduct ESSM DT/OT firings on SDTS (DT/OT-D7) in support of SSDS Open Architecture integration and uplink development. This provides for the U.S. share of cooperative efforts associated with ESSM engineering studies and other development initiatives. <i>FY 2014 Plans:</i> Continue ESSM SSDS integration testing on CVN platforms. Conduct US-unique DT/OT firings from SDTS and carriers (DT/OT-D2, DT/OT-D3). Conduct ESSM Aegis integration testing and DT/OT firings on Cruisers and Destroyers and SDTS (DT/OT-D4, DT/OT-D5, DT/OT-D6) in support of Aegis Modernization Program. Conduct ESSM DT/OT firings on SDTS (DT/OT-D7) in support of SSDS Open Architecture integration and uplink development. This provides for the U.S. share of cooperative efforts associated with ESSM engineering studies and other development initiatives.					
<i>Title:</i> NATO SEASPARROW Objective Configuration <i>Description:</i> NATO SEASPARROW Objective Configuration (OC). The OC Program consists of segmenting and automating the existing MK 57 NSSMS radars (Mk 9 Track illuminator System) and launchers (Mk 29 Guided Missile Launching System). The program eliminates all MK 57 watch stations, reduces the required system hardware. <i>FY 2013 Plans:</i> Begin engineering development of the OC. Specific efforts in 2013 will include requirements definition, completion of the requirements review followed by design definition with the preliminary design review completing in the 4th Quarter of FY 13. <i>FY 2014 Plans:</i>			0.000	8.903 0	16.980 0
Articles:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
The OC FY14 RDTE funding is allocated to the systems engineering and software design and development activity associated with the NSSMS MK 9 radar automation, including associated SSDS engineering and software development efforts.				
Title: NATO Sea Sparrow Combat System Integraton Technical Direction Agent (TDA) FY 2012 Accomplishments: Provided funding for the TDA for the engineering support for combat system performance and risk mitigation. FY 2013 Plans: Technical directive agent for the NSSM / MK 91 REACH. Provide engineering support in the integration with other combat systems and risk mitigation. FY 2014 Plans: Technical directive agent for the NSSM / MK 91 REACH. Provides engineering support in the integration with other combat systems and risk mitigation.		Articles: 0.255 0	0.263 0	0.272 0
Title: STALKER LONG RANGE EO/IR/LRF SYSTEM Description: STALKER LONG RANGE EO/IR/LRF SYSTEM: Detects, acquires, classifies, identifies and determines intent of conventional,asymmetrical and advanced threats supporting AAW, ASUW, AT/FP and Global War On Terrorism. Long Range Visible/Infra Red Sensors and Laser Range Finder provide multi-spectral target imagery and accurate range data in non-benign environments. Classification to the horizon, visual resolution of 1ft @ 10 nm and range resolution/rate within 1 ft/1kt/nm. This effort is in response to the NAVCENT Counter Swarm Urgent Operational Need (UON) to combat Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC). Stalker will replace the Lowlight Level Television (LLTV) in the fleet. FY 2012 Accomplishments: A letter contract was awarded in August to Ball to procure 3 Stalker prototype units along with required installation and the applicable data package. The contract contained an option for 5 additional units exercised in January. These 8 prototype units are expected to begin delivery in May 2013. FY 2013 Plans: Test Stalker Long Range EO/IR/LRF system on multiple ship configurations. Develop tactics, techniques and procedures, and different Concept of Operations (CONOPS). Determine optimum production configuration of controllers, video distribution, and changes in capability required for common system for LHA/LHD and CVN missions. Identify capability and configuration changes during developmental testing to avoid costly engineering changes during prodction. FY 2014 Plans:		Articles: 5.600 0	5.483 0	2.429 0

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>				PROJECT 0173: <i>NATO Sea Sparrow</i>					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014	
Transition Active/Passive Dual Imaging Sensor (AP/DIS IR) improvement to Stalker to improve environmental performance via active/passive Short Wave Infra Red. System improves maritime target identification with increased range and resolution at night and through haze penetration/clutter reduction.													
Title: Evolved SEASPARROW Blk 2 Risk Reduction FY 2013 Plans: Perform Risk Reduction with consortium partners to reduce technology risk, determine and mature the appropriate set of technologies to be integrated into a full system. FY 2014 Plans: Complete Risk Reduction Phase and enter into Engineering Manufacturing Development (EMD) 2015 with an 2020 IOC. Tasks include items such as: conducting critical experiments and analyses required to mature design to support PDR; procurement of long lead laboratory and test assets required to support EMD; transitioning of design activities from Risk Reduction to EMD, and the start of EMD contract.										Articles:	0.000	8.000 0	20.000 0
Accomplishments/Planned Programs Subtotals										10.791	32.005	48.888	
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		
• WPN 2307: <i>ESSM</i>	48.486	58.194	76.773		76.773	120.371	132.509	134.524	135.112	337.546	1,844.304		
• OPN 5237: <i>NATO SEA SPARROW</i>	8.926	8.960	60.403		60.403	28.564	40.636	31.637	32.179	Continuing	Continuing		
Remarks													
D. Acquisition Strategy													
ESSM is a directed sole source contract to Raytheon Missile Systems Company. The MK 29 ESSM Launcher Upgrade and REARC/SSDS Integration effort was a directed sole source contract to Raytheon Company Integrated Defense System.													
E. Performance Metrics													
Successfully complete Developmental Test/Operational testing.													

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 0173: NATO Sea Sparrow					
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
ESSM-Primary Hardware Development	C/CPAF	Raytheon:Tucson	143.356	0.000		0.000		0.000		-		0.000	0.000	143.356	
ESSM-Primary Hardware Development	C/CPAF	Raytheon:Tuscon	3.746	0.000		0.000		0.000		-		0.000	0.000	3.746	3.746
Amphib Self-Defense PRA Imp	Various	various:various	1.996	0.000		0.000		0.000		-		0.000	0.000	1.996	11.200
Ancillary Hardware Development	SS/CPAF	Lockhead/UDLP:various	46.706	0.000		0.000		0.000		-		0.000	0.000	46.706	46.706
Systems Engineering	Various	various:various	22.622	0.000		0.000		0.000		-		0.000	0.000	22.622	22.622
MK 29/ESSM Launcher upgrade	C/CPAF	Raytheon Sys:Tucson	8.521	0.000		0.000		0.000		-		0.000	0.000	8.521	8.521
NATO-Primary Hdw Dev	SS/CPAF	Raytheon Sys:Tucson	30.627	0.000		0.000		0.000		-		0.000	0.000	30.627	30.627
Software Development/ Test	SS/CPAF	Raytheon Sys:Tucson	7.691	0.000		0.000		0.000		-		0.000	0.000	7.691	
Systems Engineering/ Firing Spt	WR	Corona:CA	6.640	0.600	Nov 2011	0.685	Dec 2012	0.893	Dec 2013	-		0.893	0.000	8.818	
NATO OC - Hardware	SS/CPAF	Raytheon:RI	0.000	0.000		1.000	Nov 2012	0.000		-		0.000	0.000	1.000	
NATO OC System Engineering	SS/CPAF	Raytheon:RI	0.000	0.000		1.653	Nov 2012	2.679	Nov 2013	-		2.679	0.000	4.332	
NATO OC - Software	SS/CPAF	Raytheon:RI	0.000	0.000		4.938	Nov 2012	12.749	Feb 2014	-		12.749	0.000	17.687	
Stalker System Engineering	SS/CPAF	Ball:CO	0.000	0.000		3.233	Nov 2012	1.428	Dec 2013	-		1.428	0.000	4.661	
Stalker Hardware Engineering	SS/CPAF	Ball:CO	7.500	5.600	Nov 2011	1.250	Nov 2012	0.000		-		0.000	0.000	14.350	
Stalker Software Engineering	SS/CPAF	Ball:CO	2.000	0.000		0.500	Nov 2012	0.500	Dec 2013	-		0.500	0.000	3.000	
ESSM Blk 2 Risk reduction	SS/FFPLOE	Raytheon Sys:Tuscon	0.000	0.000		8.000	Nov 2012	20.000	Dec 2013	-		20.000	0.000	28.000	
Subtotal			281.405	6.200		21.259		38.249		0.000		38.249	0.000	347.113	

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)						PROJECT 0173: NATO Sea Sparrow			
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
Integrated Logistics Support	WR	NSWC PHD:CA	3.568	0.000		0.000		0.000		-		0.000	0.000	3.568	
Engr Support1	WR	various:various	4.207	0.000		0.000		0.000		-		0.000	0.000	4.207	
MK 29/ESSM Launcher Support	WR	Dahlgren/PHD:VA/CA	0.375	0.000		0.000		0.000		-		0.000	0.000	0.375	
Engr Support2	WR	various:various	0.195	0.000		0.000		0.000		-		0.000	0.000	0.195	0.195
NATO-MK 91/SSDS Integ	WR	Dahlgren/PHD:VA/CA	0.834	0.000		0.000		0.000		-		0.000	0.000	0.834	
Engr Support3	WR	various:various	6.364	0.000		0.000		0.000		-		0.000	0.000	6.364	
NATO System TDA	SS/FP	APL:MD	1.220	0.155	Dec 2011	0.272	Nov 2012	0.272	Dec 2013	-		0.272	Continuing	Continuing	Continuing
NATO OC	SS/FFP	APL:MD	0.000	0.000		0.300	Nov 2012	0.300	Dec 2013	-		0.300	0.000	0.600	
Stalker -ISEA/TDA/RM&A	SS/FFP	various:various	0.000	0.000		0.300	Nov 2012	0.300	Dec 2013	-		0.300	0.000	0.600	
NATO Engr Support OC	WR	various:various	0.000	0.000		0.400	Nov 2012	0.500	Dec 2013	-		0.500	0.000	0.900	
Subtotal			16.763	0.155		1.272		1.372		0.000		1.372			
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
Developmental Test & Evaluation	WR	NSWC CL:CA	15.698	1.217	Oct 2011	1.568	Dec 2012	1.694	Jan 2014	-		1.694	Continuing	Continuing	Continuing
OPEVAL/TECHEVAL/Test Firings	WR	Corona, IHD, Dahlgren, SNSWC, PHD):various	11.878	0.000		2.310	Nov 2012	2.391	Jan 2014	-		2.391	0.000	16.579	
Developmental Test & Evaluation	SS/FFP	APL:MD	2.979	0.510	Oct 2011	0.659	Oct 2012	0.789	Feb 2014	-		0.789	Continuing	Continuing	Continuing
ESSM Test & Evaluation	C/CPAF	Raytheon:Tuscon	7.998	2.026	Nov 2011	3.056	Nov 2012	2.473	Feb 2014	-		2.473	Continuing	Continuing	Continuing
Developmental Test & Evaluation	WR	Dahlgren:VA	0.418	0.000		0.000		0.000		-		0.000	0.000	0.418	0.836
ESSM Test & Evaluation	WR	Dahlgren/PHD:VA/CA	0.000	0.543	Nov 2011	0.560	Nov 2012	0.592	Feb 2014	-		0.592	0.000	1.695	

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)						PROJECT 0173: NATO Sea Sparrow			
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
NATO OC - Test & Evaluation	WR	Dahlgren/PHD:VA/CA	0.000	0.000		0.469	Nov 2012	0.572	Nov 2013	-		0.572	0.000	1.041	
Stalker - Test & eval	WR	TBD:TBD	0.000	0.000		0.200	Nov 2012	0.200	Mar 2014	-		0.200	0.000	0.400	
Subtotal			38.971	4.296		8.822		8.711		0.000		8.711			
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
ESSM-ENGR SPT	WR	various:various	4.913	0.000		0.000		0.000		-		0.000	0.000	4.913	
ESSM-PM SPT	WR	various:various	0.498	0.000		0.000		0.000		-		0.000	0.000	0.498	0.498
ESSM-Support and Performing Activity	Allot	PHD/NAWC CL/APL:CA/MD	13.951	0.000		0.256	Dec 2012	0.300	Oct 2013	-		0.300	Continuing	Continuing	Continuing
ESSM-Travel	Allot	Program Office:VA	2.782	0.140	Nov 2011	0.105	Oct 2012	0.075	Oct 2013	-		0.075	Continuing	Continuing	Continuing
ESSM-Misc	Various	various:various	2.065	0.000		0.100	Jun 2013	0.101	Nov 2013	-		0.101	0.000	2.266	2.065
NATO Travel/Misc	Various	various:various	1.831	0.000		0.191	Oct 2012	0.080	Oct 2013	-		0.080	0.000	2.102	
Defense Acquisition Workforce Development Fund	Various	various:various	0.047	0.000		0.000		0.000		-		0.000	0.000	0.047	
Subtotal			26.087	0.140		0.652		0.556		0.000		0.556			
Project Cost Totals			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			363.226	10.791		32.005		48.888		0.000		48.888			
Remarks Various used for multiple vendors and location under threshold.															

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

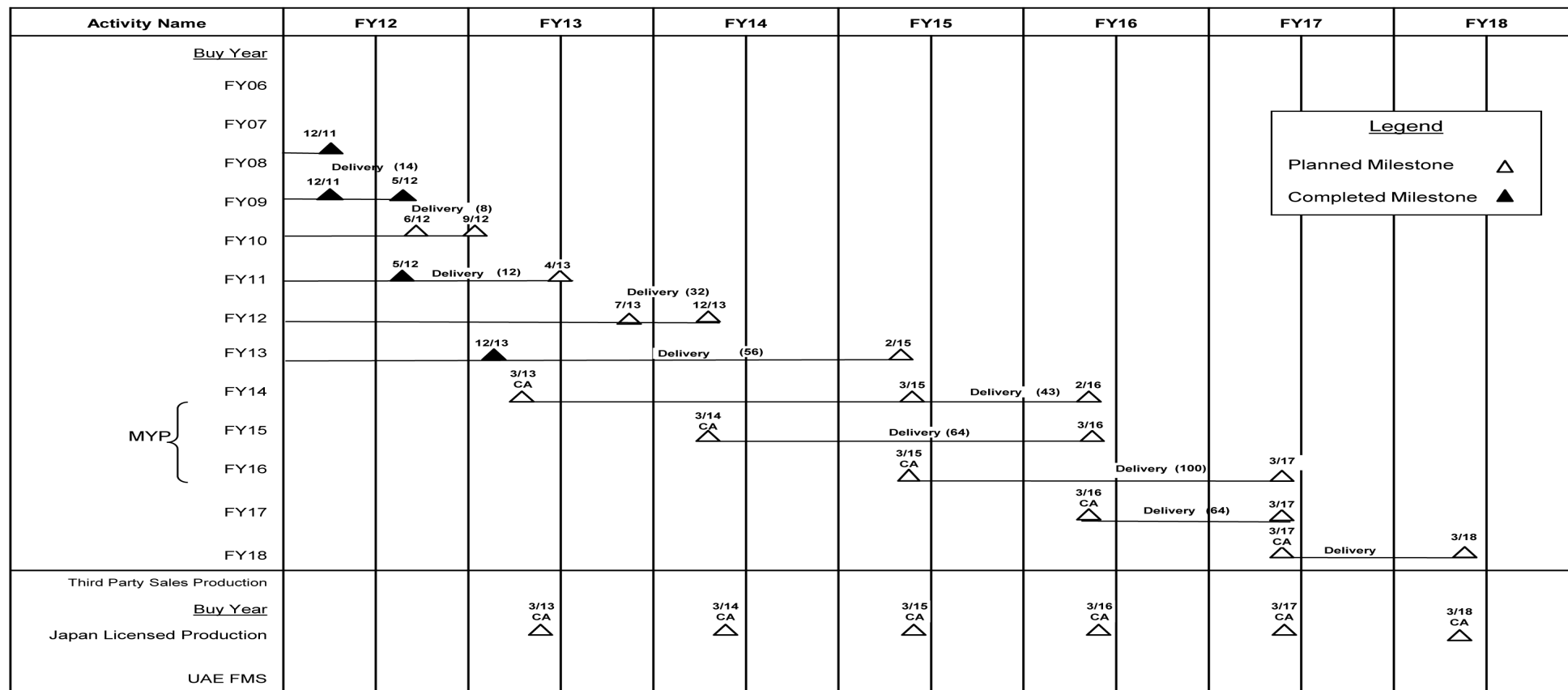
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604756N: Ship Self Def (Engage: Hard Kill)

PROJECT

0173: NATO Sea Sparrow



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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 5: *System Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604756N: *Ship Self Def (Engage: Hard Kill)*

PROJECT

0173: *NATO Sea Sparrow*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0173				
Platform Intergration DT/OT	1	2012	2	2016
Expiration of Production MOU	1	2012	1	2012
MOU Extension	2	2012	3	2014
Page/Group/Row: FY 08 FRP DELIVERIES	1	2012	1	2012
Page/Group/Row: FY 09 FRP DELIVERIES	1	2012	3	2012
Page/Group/Row: FY 10 FRP DELIVERIES	3	2012	3	2013
Page/Group/Row: FY 11 FRP DELIVERIES	4	2013	1	2014
Page/Group/Row: FY 12 FRP CONTRACT AWARD	1	2012	1	2012
Page/Group/Row: FY 12 FRP DELIVERIES	1	2014	3	2014
Page/Group/Row: FY 13 FRP CONTRACT AWARD	1	2013	1	2013
Page/Group/Row: FY 13 FRP DELIVERIES	1	2015	1	2016
Page/Group/Row: FY 14 FRP CONTRACT AWARD	1	2014	1	2014
Page/Group/Row: FY14 FRP DELIVERIES	1	2016	3	2016
Page/Group/Row: FY 15 FRP CONTRACT AWARD	1	2015	1	2015
Page/Group/Row: FY15 FRP DELIVERIES	1	2017	3	2017
Page/Group/Row: FY 16 FRP CONTRACT AWARD	1	2016	1	2016
Page/Group/Row: FY 17 FRP CONTRACT AWARD	1	2018	1	2018

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 3342: Griffin Missile			
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
3342: Griffin Missile	24.783	8.000	30.777	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	63.560
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 purpose of this program is to develop and deliver Counter-Swarm Small Boat defense capabilities for the Surface Fleet. There are two (2) primary efforts supporting this mission area listed below:												
1. Rapid Deployment Capabilities (RDCs)												
- Cyclone Patrol Coastal(PC) with Griffin Missile System (GMS)												
- Littoral Combat Ship (LCS) Missile Module with Griffin Missile System												
2. Shoulder Launched Missile System												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Griffin Missile System (GMS) Rapid Deployment Capabilities (RDCs)									7.000	8.100	0.000	
									Articles: 0	0		
FY 2012 Accomplishments:												
Completed Launcher design, production and integration including restrained fire mitigation testing and environmental testing. Developed Weapons control system and battle management system and software modifications. Conducted end-to-end system testing in software integration lab. Procured test missiles, performed test planning and preparations, installation and checkout. Planned procurement for forward deployed PC hardware.												
FY 2013 Plans:												
Conduct Guided Test Vehicle (GTV)/structural test firing of Griffin missile and Quick Reaction Assessment (QRA) with Commander Operational Test and Evaluation Force (COMOPTEVFOR). Complete lead PC design, develop training and logistics support, obtain safety approvals for system deployment and formulate the OCONUS AIT plan. Continue procurement planning for forward deployed PC hardware. Hardware and software upgrade will be implemented based on results of operational assessment.												
Title: Shoulder Launched Missile Systems									0.000	22.677	0.000	
									Articles: 0			
FY 2013 Plans:												

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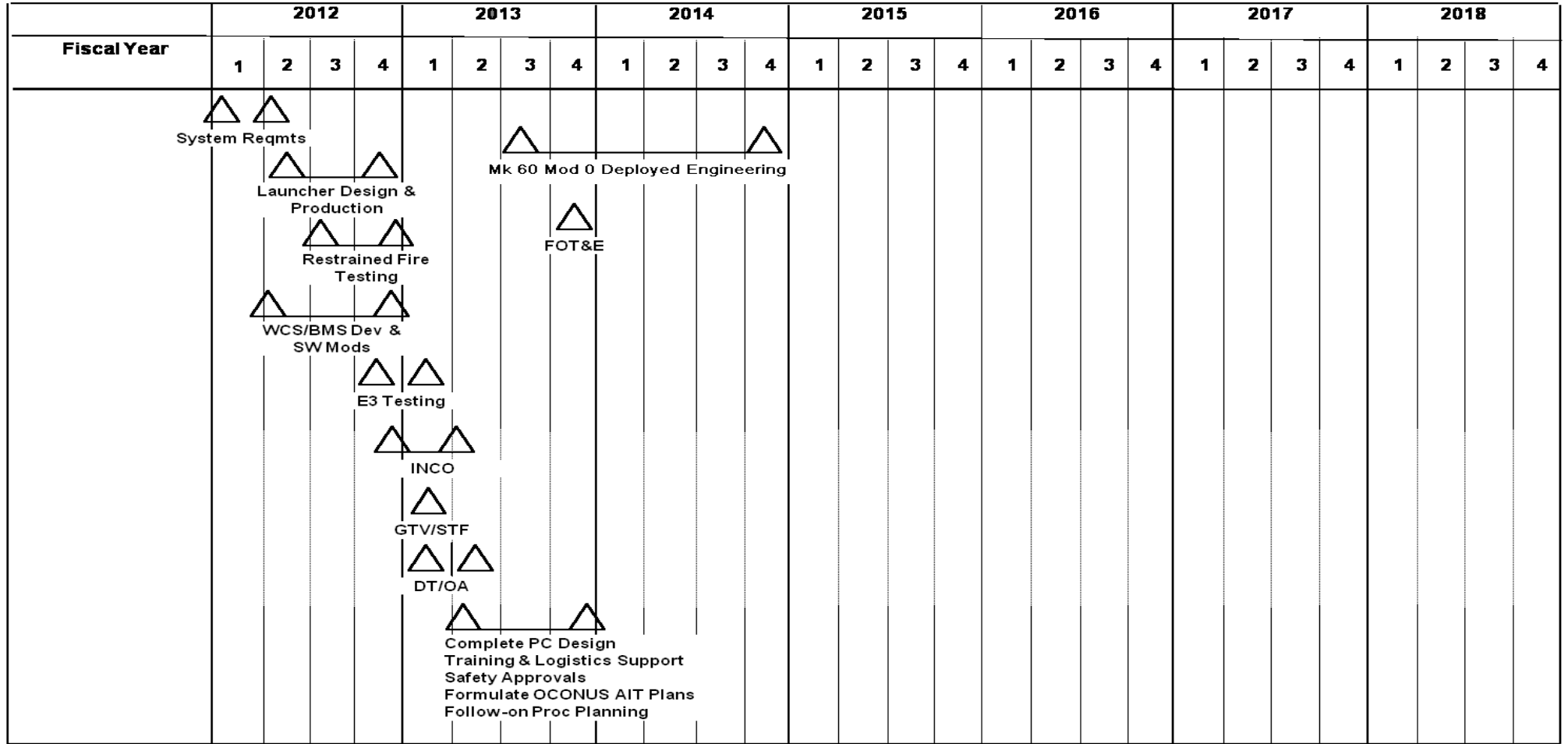
Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>				PROJECT 3342: <i>Griffin Missile</i>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Perform environmental and safety qualification. Complete Electromagnetic Vulnerability/Electromagnetic Interference (EMV/EMI) validation. Develop training curriculum and logistics support plan for existing missiles. Missile modifications, launcher development, architecture and warhead upgrade analysis for developmental missiles.												
Title: LCS Increment 1 with Griffin Missile Articles:										1.000 0	0.000	0.000
FY 2012 Accomplishments: Procured two (2) Griffin test missiles for LCS and performed LCS missile module modifications in preparation for the July 2013 test.												
Accomplishments/Planned Programs Subtotals										8.000	30.777	0.000
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	
• WPN/2264: <i>Stand Off Precision Guided Munitions (SOPGM)</i>	7.680	0.000	6.278		6.278	0.445	0.445	0.445	0.454	0.000	23.427	
• OPN/5543: <i>Items Less Than \$5 Million</i>	9.600	0.000	5.793		5.793	4.367	2.927	0.000	0.000	0.000	32.287	
• OMN/1D4D: <i>Griffin Missile System Budget</i>	0.000	0.000	1.567		1.567	6.795	6.895	6.995	7.120	0.000	29.372	
Remarks												
D. Acquisition Strategy												
RDCs consist of Griffin Missile System (GMS) integrated on Patrol Coastal and LCS. The Program Office manages development and integration of the GMS on surface ships. GMS consists of Griffin B Block II Missile procured via Raytheon sole source contract with U.S. Army Joint Attack Munitions System (JAMS) program office; BriteStar EO/IR Laser Designator procured by Navy Surface Weapon Center (NSWC) Crane on a FFP contract with Forward Looking Infra Red Systems. The Missile Launcher and Battle Management System are developed at NSWC Dahlgren and NSWC Corona. NSWC China Lake develops the shoulder launcher for Spike missile, Javelin missiles are procured through MARCOSYSCOM program office.												
E. Performance Metrics												
Successful completion of Quick Reaction Assessment (QRA) for Griffin Missile System Mar 2013. Qualification of Javelin missile for use aboard Military Sealift Command ships.												

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604756N: Ship Self Def (Engage: Hard Kill)				PROJECT 3342: Griffin Missile					
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
GMS - PC Integration	WR	PHD:CA	1.097	1.306	Nov 2012	0.410	Nov 2012	0.000		-		0.000	0.000	2.813	
GMS - PC Integration	WR	Dahlgren:VA	6.188	4.406	Nov 2012	3.599	Nov 2012	0.000		-		0.000	0.000	14.193	
Shoulder Launch Missile Development	WR	China Lake:CA	4.254	0.150	Nov 2012	22.677	Nov 2012	0.000		-		0.000	0.000	27.081	
GMS - PC Integration	WR	Crane:IN	4.171	0.510	Nov 2012	0.000		0.000		-		0.000	0.000	4.681	
GMS - PC Integration	MIPR	JAMS:AL	3.906	0.209	Nov 2012	1.275	Jan 2013	0.000		-		0.000	0.000	5.390	
GMS - PC Integration	WR	Corona:CA	0.476	0.413	Nov 2012	0.120	Dec 2012	0.000		-		0.000	0.000	1.009	
GMS - PC Integration	WR	Pt Mugu:CA	0.704	0.000		0.000		0.000		-		0.000	0.000	0.704	
GMS - PC Integration	WR	Indian Head:MD	0.000	0.030	Nov 2012	0.000		0.000		-		0.000	0.000	0.030	
GMS - PC Integration	WR	SPAWAR:CA	0.195	0.198	Nov 2012	0.055	Jan 2013	0.000		-		0.000	0.000	0.448	
GMS - PC Integration	Various	Various:Various	2.400	0.556	Nov 2012	1.757	Feb 2013	0.000		-		0.000	0.000	4.713	
Subtotal			23.391	7.778		29.893		0.000		0.000		0.000	0.000	61.062	
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	Various	Various:Various	1.392	0.222	Nov 2012	0.884	Feb 2013	0.000		-		0.000	0.000	2.498	
Subtotal			1.392	0.222		0.884		0.000		0.000		0.000	0.000	2.498	
			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			24.783	8.000		30.777		0.000		0.000		0.000	0.000	63.560	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy																DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY																R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy																PE 0604756N: Ship Self Def (Engage: Hard Kill)			
BA 5: System Development & Demonstration (SDD)																PROJECT			
																3342: Griffin Missile			



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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 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>	PROJECT 3342: <i>Griffin Missile</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3342				
System Requirements	1	2012	2	2012
Launcher Design & Production	2	2012	4	2012
Restrained Fire Testing	3	2012	4	2012
WCS/BMS Dev and SW Mods	2	2012	4	2012
E3 Testing	4	2012	1	2013
INCO	4	2012	1	2013
GTV/STF	1	2013	1	2013
DT/OA	1	2013	2	2013
Complete PC Design, Trng, Safety, AIT Plans, Proc Planning	2	2013	4	2013
Mk 60 Mod 0 Deployed Engineering	3	2013	4	2014
FOT&E	4	2013	4	2013

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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 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>				PROJECT 9999: <i>Congressional Adds</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
9999: <i>Congressional Adds</i>	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	18.000	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												
<u>A. Mission Description and Budget Item Justification</u> Congressional Add.												
<u>B. Accomplishments/Planned Programs (\$ in Millions)</u> N/A												
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A												
<u>Remarks</u>												
<u>D. Acquisition Strategy</u> Not required for Congressional Adds.												
<u>E. Performance Metrics</u> Not required for Congressional Adds.												

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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 0604756N: <i>Ship Self Def (Engage: Hard Kill)</i>				PROJECT 9999: <i>Congressional Adds</i>				

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
TBD	TBD	TBD:TBD	0.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000			

	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	0.000	0.000	0.000			

Remarks