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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603506N: Surface Ship Torpedo Defense							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	48.215	67.257	57.796	0.000	57.796	60.842	51.937	43.003	32.091	Continuing	Continuing
0225: Surface Ship Torpedo Defense (SSTD)	45.662	57.299	57.796	0.000	57.796	60.842	51.937	43.003	32.091	Continuing	Continuing
9999: Congressional Adds	2.553	9.958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.729
A. Mission Description and Budget Item Justification											
<p>The Surface Ship Torpedo Defense (STTD), Project 0225, develops a detect to engage hardkill torpedo defense system called the Anti-Torpedo Torpedo Defense System (ATTDS) as specified in the Draft ATTDS Capability Development Document (CDD). This program uses an evolutionary acquisition strategy of providing incremental surface ship torpedo defense capability by implementing first on Cruisers and Destroyers (CRUDES) already equipped with sonar systems, fire control systems and launchers. At-sea demonstrations of the Torpedo Detection Classification and Localization (TDCL) systems conducted FY06 through FY09 led to a CRUDES TDCL draft system specification in FY09.</p> <p>At sea testing of the EDM-1 design of the Anti-Torpedo Torpedo (ATT) variant of the Common Very Lightweight Torpedo (CVLWT) in FY07 through FY09 facilitates completion of the EDM-2 design in FY10. The ATT will be shipped, stowed and launched from an all up round canister known as the Countermeasure Anti-Torpedo (CAT).</p> <p>In FY10, an EDM of the CRUDES ship systems will be developed. The systems will include, a command and control system with user interface, a modified Surface Vessel Torpedo Tube launcher, and a canistered ATT. The TDCL system will utilize a sensor set added to the AN/SLQ-25 (NIXIE) System, processing in the AN/SQQ-89, as well as the hull mounted sonar already employed on these ships. The development of the ATT is the first derivative of the CVLWT as an acquisition program. The CAT and the TDCL development are closely linked with the ONR Sea Shield Future Naval Capability (FNC) programs that provide advanced technology inserts at key transition points.</p>											
<p>FY09 Congressional Add-Project 9D21A: Develop the Open Architecture (OA) supportability processes, methods, and tools required to facilitate the real-time capture and cataloging of sailor training, performance, and vocational skills data.</p>											
<p>FY09 Congressional Add-Project 9D22A: Expand technology development of mobile countermeasures used for Surface Ship Torpedo Defense including device engineering, fabrication and testing capabilities to assess the effectiveness of Next Generation (mobile) Countermeasures.</p>											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy		PE 0603506N: Surface Ship Torpedo Defense			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
FY10 Congressional Add-Project 10C097, Continuous Active Sonar for Torpedo DCL Systems: Adapt Continuous Active Sonar (CAS) and other active and passive sonar technologies that have proved very effective for active ASW applications, to improve TDCL capabilities and extend ATTDS coverage against most stressing emergent threats.					
FY10 Congressional Add-Project 10C096, AN/SLQ-25D Integration: Provide integration of the SLQ-25D countermeasure system with the Anti-Torpedo Torpedo Defense System. This integration includes development of interfaces with Ship's Sonar and Fire Control systems, as well as integration with new towed sensors and integration with the ship itself.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	51.545	57.538	0.000	0.000	0.000
Current President's Budget	48.215	67.257	57.796	0.000	57.796
Total Adjustments	-3.330	9.719	57.796	0.000	57.796
• Congressional General Reductions		-0.281			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		10.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-2.115	0.000			
• SBIR/STTR Transfer	-1.215	0.000			
• Program Adjustments	0.000	0.000	57.796	0.000	57.796
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 9999: Congressional Adds					
Congressional Add: AN/SLQ-25D Integration					
Congressional Add: Continuous Active Sonar for Torpedo DCL Systems					
Congressional Add: Supportability Training Services Infrastructure					
Congressional Add: Mobile Acoustic Decoys for Surface Ship Defense					
Congressional Add Subtotals for Project: 9999					
	FY 2009	FY 2010			
	0.000	6.373			
	0.000	3.585			
	1.596	0.000			
	0.957	0.000			
	2.553	9.958			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy		DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603506N: <i>Surface Ship Torpedo Defense</i>		
<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>		FY 2009	FY 2010
Congressional Add Totals for all Projects		2.553	9.958
<u>Change Summary Explanation</u> Technical: Not applicable. Schedule: Not applicable. FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.			

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603506N: <i>Surface Ship Torpedo Defense</i>				PROJECT 0225: <i>Surface Ship Torpedo Defense (SSTD)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0225: <i>Surface Ship Torpedo Defense (SSTD)</i>	45.662	57.299	57.796	0.000	57.796	60.842	51.937	43.003	32.091	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification Surface Ship Torpedo Defense, Project 0225, develops a detect to engage hardkill torpedo defense system called the Anti-Torpedo Torpedo Defense System (ATTDS) as specified in the Capability Development Document (CDD) for a Cruiser and Destroyer (CRUDES) based Torpedo Defense System. This development approach uses an Evolutionary Acquisition strategy of providing incremental surface ship torpedo defense capability by implementing first on ships already equipped with sonar and fire control systems and launchers. Subsequent increments will install this capability on high value units.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
ANTI-TORPEDO TORPEDO (ATT): <i>FY 2009 Accomplishments:</i> Continue ATT EDM-2 Design. Continue ATT Launcher development. Continue CDD signature process, PLCCE/ICE, and Acquisition Program Baseline. <i>FY 2010 Plans:</i> Begin ATT EDM-2 Builds. Perform Critical Design Review (CDR). Achieve Milestone B. Complete TEMP signature process, demonstrate ATT Technology Readiness Level. <i>FY 2011 Base Plans:</i> Continue ATT EDM-2 Builds.						36.425	41.299	41.796	0.000	41.796	
SHIP SYSTEMS:						9.000	16.000	16.000	0.000	16.000	

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603506N: Surface Ship Torpedo Defense				PROJECT 0225: Surface Ship Torpedo Defense (SSTD)			
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2009 Accomplishments: Conduct DDG-51 and HVU TDCL test events. Initiate Ship System EDM Design. Generate ATTDS Draft Spec. Initiate Ship System EDM Build. Complete ATT EDM-1 testing.											
FY 2010 Plans: Conduct additional DDC-51 and HVU TDCL test events. Complete Ship Systems EDM Design. Continue Ship System EDM Build. Conduct ATTDS Critical Design Review (CDR).											
FY 2011 Base Plans: Complete Ship System EDM build. Prepare for System Level Testing.											
DEFENSE ACQUISITION WORKFORCE FUND FY 2009 Accomplishments: Funded Defense Acquisition Workforce Fund (DAWDF)						0.237	0.000	0.000	0.000	0.000	
Accomplishments/Planned Programs Subtotals						45.662	57.299	57.796	0.000	57.796	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• WPN/311300: Surface Ship Torpedo Defense	0.000	0.000	0.000	0.000	0.000	12.430	15.875	23.438	38.709	0.000	90.452
	20.821	10.153	2.206	0.000	2.206	8.310	18.011	19.748	19.844	0.000	99.093

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• OPN/221300: Surface Ship Torpedo Defense											
D. Acquisition Strategy											
The project develops Surface Ship Torpedo Defense (SSTD) capabilities using an evolutionary acquisition incremental development approach. OPN: In the FY07 - FY09 time frame, the OPN funding upgrades the existing AN/SLQ-25A to an AN/SLQ-25C NIXIE through Engineering Change Proposals (ECPs) performed by the Original Equipment Manufacture (OEM) and includes procurement and installation. The FY10 Milestone B approves the ATTDs as a system of systems to bring a hard kill torpedo defense system to surface ships. The EDM-1 Common Very Lightweight Torpedo (CVLWT) design brings in the hard-kill component of the ATTDs. The EDM-2 design, which began in FY08 and continues through FY09 and into FY10 will develop the Canistered ATT as a Countermeasure Anti-Torpedo (CAT). EDM-2 units to support the System Development and demonstration phase of the program will be built by Applied Research Laboratory/Penn State University (ARL/PSU).											
E. Performance Metrics											
Probability of kill for the ATT Torpedo Detection Classification and Localization (TDCL) False Alert Rate TDCL probability of correct classification ATTDS System Availability											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603506N: Surface Ship Torpedo Defense				PROJECT 0225: Surface Ship Torpedo Defense (SSTD)					
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Systems Engineering	WR	NUWC Newport, RI	17.889	8.400	Feb 2010	8.400	Dec 2010	0.000		8.400	Continuing	Continuing	Continuing	
Systems Engineering ATT Dev.	C/CPFF	PSU/ARL State College, PA	74.746	28.799	Feb 2010	29.396	Feb 2011	0.000		29.396	Continuing	Continuing	Continuing	
Systems Engineering	C/CPFF	JHU/APL Baltimore , MD	1.270	0.300	Feb 2010	0.300	Feb 2011	0.000		0.300	Continuing	Continuing	Continuing	
Systems Engineering Warhead Dev.	WR	NSWC Indian Head, MD	20.300	7.800	Nov 2009	9.000	Dec 2010	0.000		9.000	Continuing	Continuing	Continuing	
Systems Engineering	WR	NUWC Keyport,WA	10.126	3.300	Oct 2009	4.300	Dec 2010	0.000		4.300	Continuing	Continuing	Continuing	
Systems Engineering TDCL	C/CPFF	Ultra Braintree, MA	10.800	3.000	Feb 2010	3.000	Feb 2011	0.000		3.000	0.000	16.800	Continuing	
Systems Engineering ATT	WR	ONR Not Specified	1.235	0.100	Jan 2010	0.100	Jan 2011	0.000		0.100	Continuing	Continuing	Continuing	
Systems Engineering TDCL	C/CPFF	AAC Hauppauge, NY	0.830	3.000	Feb 2010	3.000	Feb 2011	0.000		3.000	0.000	6.830	Continuing	
Systems Engineering	WR	OPTEVFOR Norfolk, VA	0.273	0.150	Feb 2010	0.150	Feb 2011	0.000		0.150	Continuing	Continuing	Continuing	
Systems Engineering	C/CPFF	ArgonST Manassas, VA	0.800	0.000		0.000		0.000		0.000	0.000	0.800	Continuing	
Systems Engineering TDCL	WR	NSWC Dahlgren, VA	3.122	1.400	Dec 2009	0.000		0.000		0.000	0.000	4.522	Continuing	
Systems Engineering TDCL	WR	SPAWAR San Diego, CA	0.225	0.075	Oct 2009	0.075	Dec 2010	0.000		0.075	0.000	0.375	Continuing	
Systems Engineering	C/CPFF	UT/ARL	0.300	0.200	Jan 2010	0.000		0.000		0.000	0.000	0.500	Continuing	

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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Not Specified											
Subtotal			141.916	56.524		57.721		0.000		57.721			
Remarks													
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/FFP	EG&G Gaithersburg, Md.	2.846	0.000		0.000		0.000		0.000	0.000	2.846	Continuing
DAWDF	C/TBD	Not Specified Not Specified	0.237	0.000		0.000		0.000		0.000	0.000	0.237	Continuing
Program Management Support	C/CPAF	Tech-Marine Burke, VA	0.700	0.700	Jan 2010	0.000		0.000		0.000	0.000	1.400	Continuing
Travel	C/TBD	PMS 415 Not Specified	0.335	0.075	Feb 2010	0.075	Nov 2010	0.000		0.075	0.000	0.485	Continuing
Subtotal			4.118	0.775		0.075		0.000		0.075	0.000	4.968	
Remarks													

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603506N: <i>Surface Ship Torpedo Defense</i>			PROJECT 0225: <i>Surface Ship Torpedo Defense (SSTD)</i>				
	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	146.034	57.299		57.796		0.000		57.796			
Remarks											

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Navy

PROJECT

0225: *Surface Ship Torpedo Defense (SSTD)*

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DATE:

February 2010

RDTEN/ BA 4

PROJECT NUMBER AND NAME	0225/Surface Ship Torpedo Defense (SSTD)
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	FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15					
	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		
Program Milestones							△ MS B				System Demo Trial △			△ MS C					△ DT/OT Tests		△				△ OT&E				△ FRP	△ IOC
6 3/4 FORM FACTOR/ ANTI TORPEDO TORPEDO (ATT)	EDM-2 DESIGN				EDM-2 BUILDS																									
					△ CDD △ CDR																									
									△ CT2-1				△ CT2-2				△ CT2-2				△ CT2-3									
SHIP SYSTEMS DCL SYSTEM, COMMAND & CONTROL, LAUNCHER	▲ DDG Demo △ ATTDS SPEC																													
	SHIP SYS. EDM DESIGN																													
	SHIP SYS. EDM BUILD												△ ST-1								△ ST-2									

EXHIBIT R-4			
SCHEDULE PROFILE			

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603506N: <i>Surface Ship Torpedo Defense</i>	PROJECT 0225: <i>Surface Ship Torpedo Defense (SSTD)</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
MILESTONE B	3	2010	3	2010
-SYSTEM DEMO TRIAL	4	2011	4	2011
MILESTONE C	2	2012	2	2012
DT/OT TESTS	1	2013	4	2013
OT&E	2	2014	2	2015
FRP	3	2015	3	2015
IOC	4	2015	4	2015
CAPABILITIES DEVELOPMENT DOCUMENT (CDD)	2	2010	2	2010
CDR	2	2010	2	2010
EDM-2 DESIGN	1	2009	2	2010
IN-WATER TRIALS (CT)	4	2011	2	2013
EDM-2 BUILD	2	2010	1	2012
DDG DEMO	3	2009	3	2009
ATTDS SPEC	2	2010	2	2010
EDM DESIGN	1	2009	2	2010
EDM BUILD	3	2009	4	2011
SYSTEM LEVEL TESTS (ST)	1	2012	1	2014

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	2.553	9.958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.729
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification Congressional Adds											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010			
Congressional Add: AN/SLQ-25D Integration <i>FY 2010 Plans:</i> Provide integration of the SLQ-25D countermeasure system with the Anti-Torpedo Torpedo Defense System. This integration includes development of interfaces with Ship's Sonar and Fire Control systems, as well as integration with new towed sensors and integration with the ship itself.							0.000	6.373			
Congressional Add: Continuous Active Sonar for Torpedo DCL Systems <i>FY 2010 Plans:</i> Adapt Continuous Active Sonar (CAS) and other active and passive sonar technologies that have proved very effective for active ASW applications, to improve Torpedo Detection, Classification, and Localization capabilities and extend ATTDs coverage against most stressing emergent threats.							0.000	3.585			
Congressional Add: Supportability Training Services Infrastructure							1.596	0.000			

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
<i>FY 2009 Accomplishments:</i> Develop the Open Architecture (OA) supportability processes, methods and tools required to facilitate the real-time capture and cataloging of sailor training, performance and vocational skills data.		
Congressional Add: Mobile Acoustic Decoys for Surface Ship Defense <i>FY 2009 Accomplishments:</i> Expand technology development of mobile countermeasures used for Surface Ship Torpedo Defense including device engineering, fabrication and testing capabilities to assess the effectiveness of Net Generation (mobile) Countermeasures.	0.957	0.000
Congressional Adds Subtotals	2.553	9.958
C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		
E. Performance Metrics Congressional Adds		

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