

CLASSIFICATION:	UNCLASSIFIED
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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION	DATE February 2008
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APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 7	R-1 ITEM NOMENCLATURE 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT						
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COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	2.066	4.062	7.384	7.628	7.793	7.941	8.077
1265 / Sub Defense Warfare	2.066	4.062	7.384	7.628	7.793	7.941	8.077

A. MISSION DESCRIPTION:

This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. Next Generation Countermeasure (NGCM) efforts entail simulating and determining the effectiveness of new technologies and capabilities developed under the Future Naval Capabilities (FNC), Small Business and Innovative Research (SBIR), and other RDT&E initiatives. New and emerging hardware and software are rigorously evaluated in a representative acoustic environment through both digital and hardware-in-the-loop simulations, to determine their readiness for inserting this technology into the NGCM.

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2007	FY 2008	FY 2009
FY 2008 President's Budget:	2.123	4.149	7.387
FY 2009 President's Budget:	2.066	4.062	7.384
Total Adjustments:	-0.057	-0.087	-0.003
Summary of Adjustments:			
Undistributed General Reductions/ Increases	-0.057	-0.087	-0.003
Subtotal	-0.057	-0.087	-0.003

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN - 221000/221005 Submarine Acoustic Warfare Systems	20.106	16.815	20.857	21.260	21.559	21.944	22.379	CONT.	CONT.

D. ACQUISITION STRATEGY:

This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. In FY08, Achieve Milestone B and award competitive contract for integration of technology inserts into the Next Generation Countermeasure (NGCM). Contractor testing will be conducted in FY 10. Achieve Milestone C in FY 11 and conduct Demonstration Testing. Technical Evaluation and Operational Evaluation will be conducted in FY 12. Procure Low Rate Initial Production (LRIP) units in FY13. In FY 14 and out, NGCM units will be procured under BLI 2210.

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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)		DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	R-1 ITEM NOMENCLATURE 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	
E. MAJOR PERFORMERS: NUWC NPT/ TBD (Competitive Award).		

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT				PROJECT NUMBER AND NAME 1265/Sub Defense Warfare		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project Cost	2.066	4.062	7.384	7.628	7.793	7.941	8.077	
RDT&E Articles Qty	0	0	0	0	0	0	0	

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US Submarines. Next Generation Countermeasure (NGCM) efforts entail simulating and determining the effectiveness of new technologies and capabilities developed under the Future Naval Capabilities (FNC), Small Business and Innovative Research (SBIR), and other RDT&E initiatives. New and emerging hardware and software are rigorously evaluated in a representative acoustic environment through both digital and hardware-in-the-loop simulations, to determine their readiness for inserting this technology into the NGCM.

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	PROJECT NUMBER AND NAME 1265/Sub Defense Warfare	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Weapons Analysis Facility (WAF) Analysis	1.500	1.500	1.500
RDT&E Articles Quantity	0	0	0
FY 07-09 - Continued to conduct countermeasure proofing and effectiveness analysis for designated torpedo at Weapons Analysis Facility (WAF).			
	FY 2007	FY 2008	FY 2009
Next Generation Countermeasure (NGCM)	0.566	2.562	5.884
RDT&E Articles Quantity	0	0	0
FY07 - Continue transitioning of Future Naval Capability (FNC) technologies into existing fleet countermeasures including Group Behavior, Full Duplex, Classification Look-Up Table, and RF Up-Link.			
FY08 - Continue transitioning of Future Naval Capability (FNC) technologies into existing fleet countermeasures including ACCOMS, and Fire Through Friendly Fire. Achieve MS B. Award NGCM Contract for integrating technology inserts.			
FY09 - Continue integration of technology inserts.			

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT					PROJECT NUMBER AND NAME 1265/Sub Defensive Warfare					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
WAF ANALYSIS SYSTEM ENGINEERING	WR	NUWC Newport, RI	1.500	1.500	JAN-07	1.500	JAN-08	1.500	DEC-08	CONT	CONT	0.000
NGCM SYSTEM ENGINEERING	WR	NUWC Newport, RI	4.283	0.191	JAN-07	1.462	JAN-08	0.347	DEC-08	CONT	CONT	0.000
NGCM DEVELOPMENT	C/CPAF	Contractor - TBD	0.000	0.000		0.800	JUN-08	5.237	JAN-09	CONT	CONT	0.000
NGCM SYSTEM ENGINEERING	WR	NSWC CRANE, IN	0.000	0.075	MAY-07	0.000		0.000		0.000	0.075	0.000
Subtotal Product Development			5.783	1.766		3.762		7.084		0.000	CONT	0.000
Remarks:												
PROGRAM MANAGEMENT SUPPORT	C/CPAF	EG&G Gaithersburg, MD	0.250	0.250	FEB-07	0.250	FEB-08	0.250	FEB-09	CONT	CONT	0.000
TRAVEL	WR	PMS415	0.050	0.050	NOV-06	0.050	NOV-07	0.050	NOV-08	CONT	CONT	0.000
Subtotal Management Services			0.300	0.300		0.300		0.300		CONT	CONT	0.000
Remarks:												
Total Cost			6.083	2.066		4.062		7.384		0.000	CONT	0.000

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EXHIBIT R-4, SCHEDULE PROFILE

DATE
February 2008

APPROPRIATION/BUDGET ACTIVITY
RD TEN/BA 7

PROGRAM ELEMENT NUMBER AND NAME
0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT

PROJECT NUMBER AND NAME
1265/Sub Defensive Warfare

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13
WEAPONS ANALYSIS FACILITY (WAF)	CM Effectiveness / WAF Threat Vulnerability						
TORPEDO DEFENSE WORKING GROUP (TDWG) / NEXT GENERATION COUNTERMEASURE (NGCM)	Group Behavior	ACCOMS	Integration of Technology Inserts				
	Classif. Table	Fire Through Friendly Fire			Contractor Testing	D/T Testing	
	RF Up-Link	MS B				Techeval Opeval	LRIP
	Full Duplex	Contract Award					

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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0101226N/SUBMARINE ACOUSTIC WARFARE DEVELOPMENT			PROJECT NUMBER AND NAME 1265/Sub Defensive Warfare			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
NGCM/ TDWG								
Integration of Technology Insertions		Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q2			
Milestone B			Q3					
Contract Award			Q3					
Contractor Testing					Q3-Q4			
Milestone C						Q2		
D/T Testing						Q3-Q4		
Technical Evaluation							Q2	
Operational Evaluation							Q4	
LRIP								Q1-Q4