

CLASSIFICATION:	UNCLASSIFIED
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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION	DATE February 2008
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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	R-1 ITEM NOMENCLATURE 0603795N/LAND ATTACK TECHNOLOGY						
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	64.339	51.027	40.028	28.627	17.802	17.377	17.731
2156 / NAVAL SURFACE FIRE SUPPORT	25.513	29.369	38.786	27.363	16.753	17.058	17.372
2325 / Naval Fires Control System	1.734	0.990	1.242	1.264	1.049	0.319	0.359
9999 / Congressional Add	37.092	20.668	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION:

A. (U) Mission Description and Budget Item Justification: The Naval Surface Fire Support (NSFS) mission supports the Land Attack Technology program element. To meet the United States Marine Corp (USMC) requirements for NSFS, the Navy is developing gun systems that can provide the required range, lethality, accuracy, and responsiveness. The NSFS program (Project 2156) is developing a 5" Extended Range Munition (ERM) with a coupled Global Positioning System (GPS)/Inertial Navigation System (INS) and the 5"/62 gun (a modification of the existing 5"/54 gun). This munition will have the capability to deliver its payload to a range in excess of current conventional ammunition utilizing rocket assisted propulsion with associated propelling charge improvements. The Naval Fires Control System (NFCS) (Project 2325) automates shipboard land attack battle management duties to be interoperable and consistent with joint C4ISR systems. This shipboard system will significantly improve the Navy's ability to support Operational Maneuver from the Sea (OMFTS). The Advanced Medium Caliber Gun System (AMCGD) (Project 9051C) is a demonstration to investigate an advanced gun design encompassing modularity, scalability, compactness, and long range. The Ballistic Trajectory Extended Range Munition (BTERM) (Project 9052C) - BTERM is a 5" gun-launched projectile employing a ballistic trajectory enroute to the target. BTERM utilizes rocket assisted propulsion to achieve extended ranges and a coupled GPS/INS guidance system for improved accuracy over current 5" ballistic ammunition. The Millennium Gun System (MGS) (Project 9362C) - The Millennium Gun System provides for the initial review of the 35mm Millennium Gun and ammunition development process and planning for successful weapon suitability. The 76mm Medium Caliber Gun (Project 9829N). The 76mm Super Rapid Gun effort is comprised of an evaluation of both the gun and associated ammunition. The Automated Explosives Safety Assessment Tools (Project 9A22N) - Developing quantitative risk-based explosives safety assessment tools and criteria, and applying methods as decision-making aids. The research goal is a risk-based safety decision-making strategy and implementation process, for all aspects of DoN explosives safety management initially at the headquarters level with a vision to implement at the operation Fleet and Field Activity levels. The EX-171 Extended Range Guided Munitions (ERGM) EMD (Project 9A23N). The ERGM EMD performs additional component level reliability tests in FY08. Perform flight test planning and test set-up activities in FY08 at White Sands Missile Range. The Projectile Common Guidance (Project 9A24N)- The Projectile Common Guidance project will investigate the integration of a lower cost Guidance Electronics Unit (GEU) in ERGM. The Affordable Weapon System (Project 9359C) - Conduct research with a Phase I study for Affordable Weapons System(s) (AWS).

CLASSIFICATION:**UNCLASSIFIED****EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)**

DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY

RD TEN/BA 4

R-1 ITEM NOMENCLATURE

0603795N/LAND ATTACK TECHNOLOGY**B. PROGRAM CHANGE SUMMARY:**

Funding:	FY 2007	FY 2008	FY 2009
Previous President's Budget: (FY 08 Pres Controls)	56.257	31.021	40.044
Current Presidents Budget (FY 09 Pres Controls)	64.339	51.027	40.028
Total Adjustments	8.082	20.006	0.016
Summary of Adjustments:			
Congressional Undistributed Reductions		20.800	
SBIR Adjustments	-1.140		
Reprogramming Adjustments	9.222		
Miscellaneous Adjustments		-0.794	-0.016
Subtotal	-8.082	20.006	-0.016

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY			PROJECT NUMBER AND NAME 2156/NAVAL SURFACE FIRE SUPPORT		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	25.513	29.369	38.786	27.363	16.753	17.058	17.372
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>The NSFS program develops gun systems including the 5"/62 gun (a modification of the existing 5"/54 gun) and a 5" Extended Range Munition (ERM) with a coupled Global Positioning System (GPS) and an Inertial Navigation System (INS). This munition will have the capability to deliver its payload to a range in excess of current conventional ammunition utilizing rocket assisted propulsion with associated propelling charge improvements. In 1Q FY08, a contract modification was implemented for an extension of the ERGM System Development and Demonstration (SDD) to meet the ERM requirements. The SDD phase continues in FY08-10 leading to a Milestone C decision in FY10 and Initial Operational Capability in FY11.</p>							

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY				PROJECT NUMBER AND NAME 2156/NAVAL SURFACE FIRE SUPPORT			
B. ACCOMPLISHMENTS/PLANNED PROGRAM:									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		25.513		29.369		36.786			
RDT&E Articles Quantity		0		0		0			
Continued ERGM development. Continued component testing, qualification efforts and flight tests. A contract modification for ERGM SDD was implemented in 4Q FY07 leading to an FY11 IOC. In FY08, a 20 round reliability test will be performed. In FY09, qualification testing and Land Based Flight Tests will begin.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.000		0.000		2.000			
RDT&E Articles Quantity		0		0		0			
Continue integration and testing of 5 MK 45 modifications, Gun Fire Control modifications and required interfaces in support of the Extended Range Munition IOC .									
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
PAN,MC BL, 025300	0.000	0.000	0.000	20.100	20.100	64.200	93.100	CONT	
WPN BLI: 4217, E5004	1.676	8.350	0.398	6.735	10.242	17.190	17.196	CONT	
D. ACQUISITION STRATEGY:									
The ERM program will be continued via a contract modification in 1Q FY08 leading to a reliability test in FY08. In FY 09, qualification testing and Land Based Flight Testing will begin. Developmental Testing (DT) is planned in FY10 leading to Operational Testing (OT) IOC in FY11. BAE, the sole source manufacturer of the 5" MK 45 Gun Mount, is responsible for gun mount development efforts. The Naval Surface Warfare Center, Dahlgren is the development agent for the MK 160 Fire Control System.									
E. MAJOR PERFORMERS:									
Prime Contractor for ERGM development: Raytheon Missile Systems located in Tucson, AZ.									
Prime Contractor for Gun development: BAE, located in Minneapolis, MN									
Prime Contractor for BTERM II development: Alliant TechSystems located in Woodland Hills, CA.									
Primary Navy Warfare Center: Naval Surface Warfare Center (NSWC) located in Dahlgren, VA. Will provide technical assistance to the PMO, input into Integrated Product Teams, and will be responsible for Ship Based Developmental Flight testing and evaluation.									

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE			
									February 2008			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 4		0603795N/LAND ATTACK TECHNOLOGY					2156/NAVAL SURFACE FIRE SUPPORT					
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
Privatization (2)	CPAF	BAE, Louisville, KY (96C5432)	3.908	0.000		0.000		0.000		0.000	3.908	0.000
Primary Hardware Development (2)	CPIFF	BAE, Minneapolis, Mn (96C5223)	58.738	0.000		0.000		0.000		0.000	58.738	0.000
	CPFF	BAE, Minneapolis, Man (01C4101)	9.872	0.000		0.000		0.000		0.000	9.872	0.000
	CPFF	BAE, Minneapolis, MN (TBD)	0.000	0.000		0.000		0.600	OCT-08	CONT	CONT	7.000
ERM SDD	CPAF/IF	Raytheon, Tucson, AZ (96C5204)	196.258	22.633	NOV-06	24.235	OCT-07	27.500	OCT-08	CONT	CONT	295.000
	WR/WX	NSWC, Dahlgren, VA	57.704	0.500	NOV-06	0.600	NOV-07	0.600	OCT-08	CONT	CONT	0.000
	WR/WX	NSWC, Indian Head, MD	15.338	0.189	NOV-06	0.250	NOV-07	0.750	OCT-08	CONT	CONT	0.000
	WR/WX	NSWC, PT Hue, CA	25.386	0.150	NOV-06	0.150	NOV-07	0.150	OCT-08	CONT	CONT	0.000
BTERM Demonstration	CPIF/AF	ATK, Woodland Hills, CA (04C4302)	16.226	0.000		0.000		0.000		CONT	CONT	40.262
	WR/WX	NSWC (VARIOUS)	1.622	0.000		0.000		0.000		0.000	1.622	0.000
Systems Engineering	WX/WR	NSWC (VARIOUS)	16.465	0.000		0.000		2.400	OCT-08	CONT	CONT	0.000
Systems Engineering	VAR	Miscellaneous	33.281	0.000		0.000		0.000		0.000	33.281	0.000
Award Fees	CPAF/IF	Raytheon, Tucson AZ (01C5402)	3.396	0.000		0.000		2.000	OCT-08	CONT	CONT	7.369
Award Fees	CPIF/AF	ATK, Woodland Hills, CA	0.000	0.000		0.000		0.000		0.000	0.000	0.000
Subtotal Product Development			438.194	23.472		25.235		34.000		CONT	CONT	349.631
Remarks:												
(1) PU 9052 funding is included in target value of contract												
(2) BAE was formerly known as UDLP												
Integrated Logistics Support	WR/WX	NSWC (VARIOUS)	8.944	0.000		0.000		0.250	OCT-08	CONT	CONT	0.000
Subtotal Support Costs			8.944	0.000		0.000		0.250		CONT	CONT	0.000
Remarks:												
Developmental Test and Eval	WR/WX	NSWC (VARIOUS)	38.593	0.801	NOV-06	1.460	NOV-07	3.346	OCT-08	CONT	CONT	0.000
Operational Test and Eval	WR/WX	OPTEVFOR	0.040	0.040	NOV-06	0.040	NOV-07	0.040	OCT-08	CONT	CONT	0.000
Subtotal Test and Evaluation			38.633	0.841		1.500		3.386		CONT	CONT	0.000
Remarks:												

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY					PROJECT NUMBER AND NAME 2156/NAVAL SURFACE FIRE SUPPORT					
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
T&E costs for the primary contract are included in the development costs located in the Product Development section.												
Government Engineering Support	WR/WX	NSWC (VARIOUS)	18.029	0.300	NOV-06	0.500	NOV-07	0.600	OCT-08	CONT	CONT	0.000
Project Engineering Support	WR/WX	NSWC (VARIOUS)	8.309	0.000		0.000		0.000		0.000	8.309	0.000
Program Management Support	WR/WX	VARIOUS	15.046	0.850	NOV-06	2.084	NOV-07	0.500	OCT-08	CONT	CONT	0.000
Travel	PD	NAVSEA HQ	1.136	0.050	NOV-06	0.050	NOV-07	0.050	OCT-08	CONT	CONT	0.000
Subtotal Management Services			42.520	1.200		2.634		1.150		CONT	CONT	0.000
Remarks:												
Total Cost			528.291	25.513		29.369		38.786		CONT	CONT	349.631

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EXHIBIT R-4, SCHEDULE PROFILE

DATE

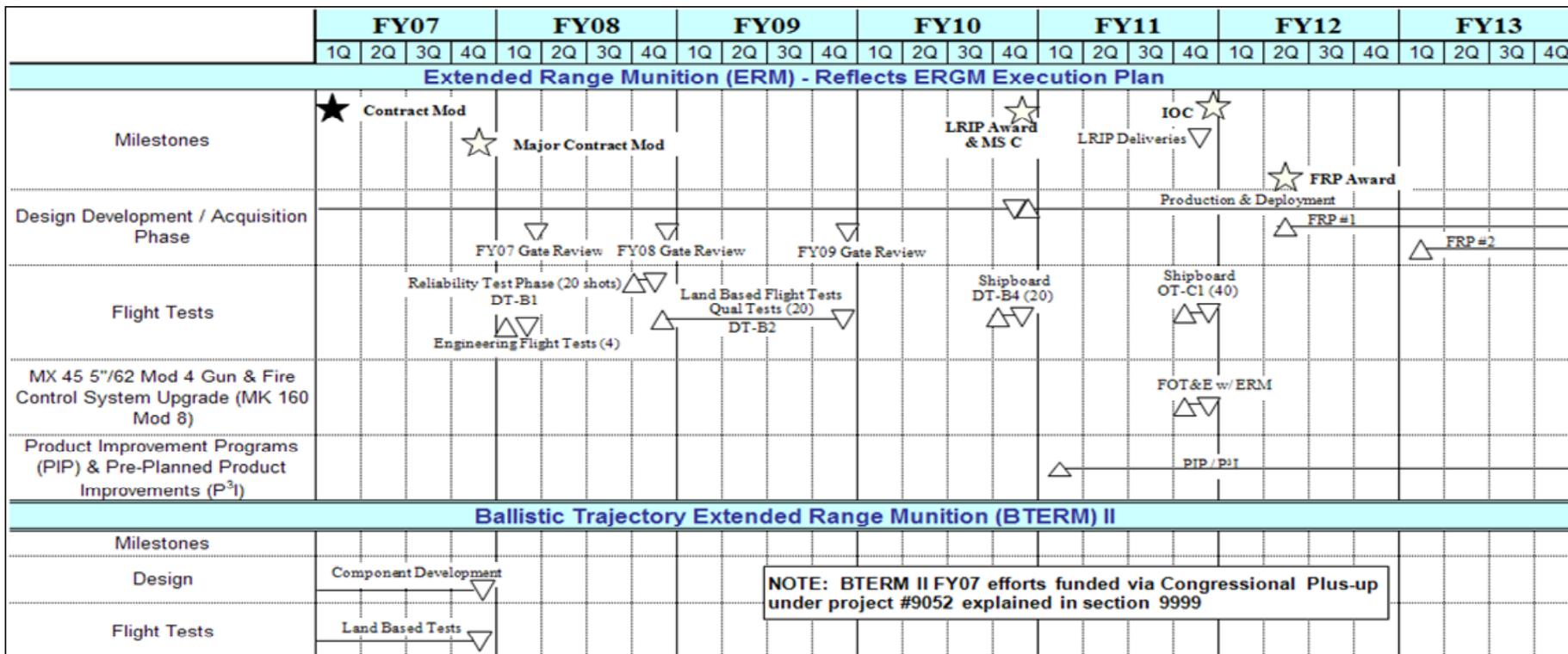
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APPROPRIATION/BUDGET ACTIVITY
RD TEN/BA 4

PROGRAM ELEMENT NUMBER AND NAME
0603795N/LAND ATTACK TECHNOLOGY

PROJECT NUMBER AND NAME
2156/NAVAL SURFACE FIRE SUPPORT

D. (U) Schedule Profile:



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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY			PROJECT NUMBER AND NAME 2156/NAVAL SURFACE FIRE SUPPORT			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
ERM (Includes Prop Charge)								
Milestones/Contract Mods		1Q						
Contract Mod		4Q						
Major Contract Award		4Q						
LRIP Award & MS C					4Q			
LRIP Deliveries						4Q		
FRP Award							2Q	
Design Development/Acquisition Phase					4Q			
Production & Deployment					4Q			
FY 07 Gate Review			1Q					
FY 08 Gate Review			4Q					
FY 09 Gate Review				4Q				
FRP #1							2Q	
FRP #2								1Q
Reliability Test Phase DT/B1 (20)			4Q					
Engineering Flight Tests (4)			1Q					
Land Based Flight Tests Qual Test (20) DT-B2			4Q	1Q-4Q				
Shipboard OT-B4 (20)					4Q			
Shipboard OT-C1 (40)						4Q		
MX 45 5						4Q		
Product Improvement Program (PIP) & Pre-planned Product Improvements (P3I)						1Q		
BTERM II								
Demonstration Phase		4Q						
Flight Tests		4Q						

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY			PROJECT NUMBER AND NAME 2325/Naval Fires Control System		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	1.734	0.990	1.242	1.264	1.049	0.319	0.359
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>A. (U) Mission Description and Budget Item Justification: Naval Fires Control System (NFCS) covers the mission planning and coordination for current and future Naval Surface Fire Support system requirements. NFCS plans, coordinates and manages the firing of Naval Surface Fires Support (NSFS) weapon systems including the 5"/62 caliber gun and Conventional Munitions. The NFCS phase I is interfacing with the Advanced TOMAHAWK Weapons Control Systems (ATWCS) and the Tactical TOMAHAWK Weapons Control Systems (TTWCS) in order for NFCS to share the Advanced Tactical Display Console (ATDC) with ATWCS and TTWCS. Funding provides software and system engineering analysis and development, reuse and integration of government and commercial computer programs to support extended range munitions and other naval weapon applications.</p>							

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION								DATE February 2008	
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY				PROJECT NUMBER AND NAME 2325/Naval Fires Control System			
B. ACCOMPLISHMENTS/PLANNED PROGRAM:									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		1.230		0.690		0.742			
RDT&E Articles Quantity		0		0		0			
Funding provides software and system engineering analysis and development, reuse and integration of government and commercial computer programs to support extended range munitions and other naval weapon applications.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.103		0.000		0.000			
RDT&E Articles Quantity		0		0		0			
Funding supports hardware configuration to support NFCS implementation. Support DT validation.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.201		0.100		0.100			
RDT&E Articles Quantity		0		0		0			
Funding provides Technical Direction Agent support, joint requirements investigation and Concept of Operations (CONOPs) scenario development.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.100		0.100		0.100			
RDT&E Articles Quantity		0		0		0			
Funding provides C4I and combat system interface investigation and analysis in relation to developing C4I systems and technologies.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.100		0.100		0.100			
RDT&E Articles Quantity		0		0		0			
Funding supports developmental test and evaluation, and logistics support elements development.									
		FY 2007		FY 2008		FY 2009			
Accomplishments/Effort/Subtotal Cost		0.000		0.000		0.200			
RDT&E Articles Quantity		0		0		0			
Funding supports operational test and evaluation and logistics support elements development.									
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 BLI 5112	3.296	1.371	1.695	1.424	1.117	1.137	1.150	CONT	

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY	PROJECT NUMBER AND NAME 2325/Naval Fires Control System	
<p>D. ACQUISITION STRATEGY: A sole source contract was awarded to GDIS for Phase 1 software development. NSWC/DD took over this function from GDIS and will remain the software developer. The hardware developer is NUWC-KP.</p> <p>E. MAJOR PERFORMERS: NSWC/DD - Technical Direction Agent, Software Development Agent and Systems Engineering Lead. NUWC/KP - Hardware Design Agent and Hardware Developer. NSWC/PHD - Test and Evaluation Agent and Integrated Logistics Support Agent. SPAWARSYSCEN, San Diego - Common Operating Environment (COE) and Adjunct Processor Developer.</p>			

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY					PROJECT NUMBER AND NAME 2325/Naval Fires Control System					
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
Primary Software Development	SS/CPAF	GDIS, Arlington, VAQ	25.517	0.000		0.000		0.000		0.000	25.517	0.000
	SS/CPAF	LM/MDS, Valley Forge, PA	19.079	0.000		0.000		0.000		0.000	19.079	0.000
	WR/WX	NSWC, Dahlgren, VA	12.655	0.856	OCT-06	0.383	NOV-07	0.435	OCT-08	CONT	CONT	0.000
	VAR	VARIOUS	1.119	0.000		0.000		0.000		0.000	1.119	0.000
	WR/WX	SSC/SD	4.809	0.198	OCT-06	0.177	NOV-07	0.171	OCT-08	CONT	CONT	0.000
Systems Engineering	WR	SSC/SD	2.951	0.000		0.000		0.000		0.000	2.951	0.000
	WR/WX	NSWC, Dahlgren, VA	18.248	0.100	OCT-06	0.100	NOV-07	0.100	OCT-08	CONT	CONT	0.000
	SS/CP	VITRO/BAE	0.670	0.000		0.000		0.000		0.000	0.670	0.000
	VAR	VARIOUS	1.304	0.000		0.000		0.000		0.000	1.304	0.000
Ancillary Hardware Development	WR/WX	NUWC, Keyport Division	11.058	0.000		0.000		0.000		0.000	11.058	0.000
	WR/WX	NSWC, PT HUE., CA	5.535	0.200	OCT-06	0.000		0.000		CONT	CONT	0.000
	VAR	PMFATDS	3.576	0.000		0.000		0.000		0.000	3.576	0.000
	SS/CPAF	JHU/APL	1.362	0.000		0.000		0.000		0.000	1.362	0.000
	SS/CPFF	JHU/APL	0.121	0.000		0.000		0.000		0.000	0.121	0.000
	WR	NSWC, Dahlgren, VA	2.236	0.000		0.000		0.000		0.000	2.236	0.000
LAM FC Hardware/Software Dev	SS/CPFF	LM/Baltimore, MD	4.181	0.000		0.000		0.000		0.000	4.181	0.000
TERMINATED	SS/CPAF	LM/MDS, Valley Forge, PA	12.131	0.000		0.000		0.000		0.000	12.131	0.000
	SS/CPFF	UDLP	0.455	0.000		0.000		0.000		0.000	0.455	0.000
	WR	NSWC, Dahlgren, VA	1.162	0.000		0.000		0.000		0.000	1.162	0.000
	WR	SSC/SD	0.486	0.000		0.000		0.000		0.000	0.486	0.000
LAM FC Systems Engineering	SS/CPFF	JHU/APL	0.386	0.000		0.000		0.000		0.000	0.386	0.000
TERMINATED	WR	NSWC, PT HUE., CA	0.361	0.000		0.000		0.000		0.000	0.361	0.000
Award Fees			3.979	0.000		0.000		0.000		0.000	3.979	0.000
Ancillary Hardware Dev	VAR	VARIOUS	1.541	0.000		0.000		0.000		0.000	1.541	0.000
Subtotal Product Development			134.922	1.354		0.660		0.706		CONT	CONT	0.000
Remarks:												
Software Development		NSWC, Panama City	0.049	0.000		0.000		0.000		0.000	0.049	0.000
Training Development	VAR	VARIOUS	0.487	0.000		0.000		0.000		0.000	0.487	0.000

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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
Integrated Logistics Support	VAR	VARIOUS	5.205	0.150	OCT-06	0.100	NOV-07	0.100	OCT-08	CONT	CONT	0.000
Subtotal Support Costs			5.741	0.150		0.100		0.100		CONT	CONT	0.000
Remarks:												
Developmental Test & Eval	WR/WX	NSWC, PT HUE., CA	6.077	0.100	OCT-06	0.100	NOV-07	0.100	OCT-08	CONT	CONT	0.000
	VAR	VARIOUS	1.500	0.000		0.000		0.000		0.000	1.500	0.000
Operational Test & Eval	VAR	VARIOUS	5.508	0.000		0.000		0.200	OCT-08	0.000	5.708	0.000
Subtotal Test and Evaluation			13.085	0.100		0.100		0.300		CONT	CONT	0.000
Remarks:												
Program Management Spt	VAR	VARIOUS	5.133	0.100	OCT-06	0.100	NOV-07	0.106	OCT-08	CONT	CONT	0.000
TRAVEL	PD	NAVSEA HQ	0.485	0.030	OCT-06	0.030	NOV-07	0.030	OCT-08	CONT	CONT	0.000
			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Subtotal Management Services			5.618	0.130		0.130		0.136		CONT	CONT	0.000
Remarks:												
Total Cost			159.366	1.734		0.990		1.242		CONT	CONT	0.000

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-4, SCHEDULE PROFILE

DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY

RD TEN/BA 4

PROGRAM ELEMENT NUMBER AND NAME

0603795N/LAND ATTACK TECHNOLOGY

PROJECT NUMBER AND NAME

2325/Naval Fires Control System

D. (U) Schedule Profile:

	FY07				FY08				FY09				FY10				FY11				FY12				FY13			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Naval Fires Control System (NFCS) Phase I / II																												
Program Reviews			▲				▲				▲				▲													
Software Development & Testing	B/L 3.5				B/L 4.0				B/L 5.0																			
Tests - OT					Shipboard Test (TLDHS/PFED)												FOT&E (ERM)											

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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY			PROJECT NUMBER AND NAME 2325/Naval Fires Control System			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Naval Fires Control System (NSCS) Phase I/II								
FOT&E #1 (TLDHS & PFED)			2Q-3Q					
FOT&E #2 (ERM)						3Q-4Q		
Software Development & Testing B/L 3.5		1Q-3Q						
Software Development & Testing B/L 4.0		4Q	1Q-4Q					
Software Development & Testing B/L 5.0				1Q-4Q	1Q-2Q			

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY	PROJECT NUMBER AND NAME 9999/Congressional Add	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
9999 Congressional Adds	0.000	20.668	0.000
RDT&E Articles Quantity	0	0	0
Affordable Weapon System (The money will be executed out of NAVAIR), Modular Advanced Ultra Light Weapons System Prototype Mount, 76mm Super Rapid Medium Caliber Gun system Explosives Safety Review.			
	FY 2007	FY 2008	FY 2009
9051C Advanced Medium Gun Demonstrator	1.071	0.000	0.000
RDT&E Articles Quantity	0	0	0
The Advanced Medium Caliber Gun System is a demonstration to investigate an advanced gun design encompassing modularity, scalability, compactness, and long range. The program is intended to provide a versatile gun test platform for the U.S. military to further explore advanced gun technology in the areas of materials (barrel coatings and liners), interior and exterior ballistics and advanced projectiles. Tasks to be completed include conduct of Limited Performance Elevated Test, fabricate and integrate horizontal propellant characterization test fixture and recoil mechanism and elevatable test stand.			
	FY 2007	FY 2008	FY 2009
9052C Ballistic Trajectory Extended Range Munition Program (BTERM)	11.699	0.000	0.000
RDT&E Articles Quantity	0	0	0
BTERM is a 5" gun-launched projectile employing a ballistic trajectory enroute to the target. BTERM utilizes rocket assisted propulsion to achieve extended ranges and a coupled GPS/INS guidance system for improved accuracy over current 5" ballistic ammunition.			
	FY 2007	FY 2008	FY 2009
9362C Millennium Gun System	1.992	0.000	0.000
RDT&E Articles Quantity	0	0	0
The Millennium Gun System provides for the initial review of the 35mm Millennium Gun and ammunition development process and planning for successful weapon suitability. It also supports the Weapon System Explosives Safety Review Board (WSESRB) review, testing and certification process as well as required logistics support analyses and planning.			
	FY 2007	FY 2008	FY 2009
9542C Mk57mm gun/ammo transition and start-up	0.000	0.000	0.000
RDT&E Articles Quantity	0	0	0
The 57mm Gun System is being procured and installed on US Coast Guard WMSL Cutters and LCS (flight 0 and DDG1000). Funds are provided for the completion of qualification of the 57mm MK110 MOD0 Gun and associated ammunition. Additional efforts include physical configuration audits of the gun parts, gun preparation, assembly and firing of the guns, drawing updates, and technical manual and training preparation.			

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)				DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603795N/LAND ATTACK TECHNOLOGY	PROJECT NUMBER AND NAME 9999/Congressional Add		
	FY 2007	FY 2008	FY 2009	
9829C 76mm Super Rapid Medium Caliber Gun	1.774	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
The 76mm Super Rapid Gun Mount (SRGM) supports the investigation of a medium caliber gun and associated ammunition. This effort includes support for safety reviews, test documentation and drawings, barrel studies, and test equipment required for gun and ammunition evaluation.				
	FY 2007	FY 2008	FY 2009	
9A22N Automated Explosive Safety Assessment Tools	0.971	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
Automated Explosives Safety Assessment Tool funding will be used for developing quantitative risk-based explosives safety assessment tools and criteria, and applying these methods as decision-making aids. The research goal is a risk-based explosives safety decision-making strategy and implementation process, for all aspects of DoN explosives safety management initially at the headquarters level with a far reaching vision to implement at the operation Fleet and Field Activity levels.				
	FY 2007	FY 2008	FY 2009	
9A23N EX 171 Extended Range Munitions (ERGM) EMD	2.136	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
Perform additional component level reliability tests in FY07. Perform flight test planning and test set-up activities.				
	FY 2007	FY 2008	FY 2009	
9A24N Projectile Common Guidance	2.147	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
Investigate the integration of a lower cost Guidance Electronics Unit (GEU) in ERGM.				
	FY 2007	FY 2008	FY 2009	
9359C Affordable Weapon System	15.302	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
Affordable Weapon System (This money is being executed out of NAVAIR) - Conduct research with a Phase I study for Affordable Weapons System(s) (AWS) to include mission concept analysis, mission analysis, system architecture analysis, fly-away cost analysis with life cycle cost impacts, and system engineering for a sea-based land attack and strike mission AWS(s) which will operate from ships, with potential sea-based Naval, Navy/Marine Corp, aircraft launch capability, will be capable of defeating targets at standoff ranges, and can rapidly complete the engagement phase consistent with making the kill chain short. the potential AWS(s) will not exceed \$250K fly away cost. The Navy awarded four fixed price study contracts in 2007 (\$13.827M in FY06 funds and \$7.787M in FY07 funds). Remaining FY07 funds reimbursable to support government engineering/management services.				