CLASSIFICATION:

R-1 ITEM NOMEN SSN-21 Developm FY 2007		FY 2009	Februa	ry 2006 FY2011	
SSN-21 Developm	nent/0604561N	FY 2009	FY2010	FY2011	
·		FY 2009	FY2010	FY2011	
FY 2007	FY 2008	FY 2009	FY2010	FY2011	
3.260	2.708	2.756	2.912	2.960	
3.260	2.708	2.756	2.912	2.960	
ſ	3.260	3.260 2.708	3.260 2.708 2.756	3.260 2.708 2.756 2.912	3.260 2.708 2.756 2.912 2.960

Defense Emergency Response funds (DERF) Funds:

Not Applicable

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

1946 SSN-21 Developments: The SEAWOLF Submarine is a multi-mission ship that provides unprecedented performance capabilities. It is the quietest, most heavily-armed attack submarine the Navy has ever built. The design of the SEAWOLF is based on an extensive research and development program and incorporates technological advancements to provide: order of magnitude improvement in ship quieting; improved acoustic sensors; more capable combat systems; greater weapon capacity and capability; quieter launch; weapon launch at high ship speed; advanced reactor; improved performance machinery program; an advanced propulsor; increased operating depth; improved ship control; and enhanced survivability. Beginnning in FY05, SEAFAC Range Upgrade funding is included in 1946 (FY05-\$1.5M, FY06 - \$2.0M, FY07 - \$1.5M).

9233 SEAFAC Range Upgrade: The SEAWOLF Class submarine is a multi-mission ship that provides numerous unprecedented submarine performance capabilities such as more capable combat systems, greater weapons capacity and capability, advanced reactor, improved acoustic sensors, increased operating depth, improved ship control, and enhanced survivability. Among these capabilities is an unprecedented acoustic stealth performance as a result of an order of magnitude improvement in ship quieting.

Maintaining the acoustic stealth advantage and upholding the effectiveness and survivability of the SEAWOLF and future class submarines require that radiated acoustic signatures are periodically measured and understood. To this end, Southeast Alaska Acoustic Measurement Facility (SEAFAC) range will be upgraded with new underwater acoustic measurement systems capable of measuring new generation quiet-class submarines stationed in the Pacific fleet. The SEAFAC Range Upgrade Program comprises of a multi-year effort to design, develop, procure, install and test High Gain Measurement Systems (HGMS) in the Static and Underway Sites at SEAFAC. Efforts to upgrade the Static Site began in FY03 and efforts to upgrade the Underway Site began in FY04. (Note: Please refer to RDT&E,N PE0604561N/1946 R2 and OPN BLI 094200/H1RC08 budget exhibits for associated SEAFAC Upgrade Program funding.)

CLASSIFICATION:

Г&E, N / ВА-5		3ER AND NAME	PRO IECT NI IMBER AND	February 2006						
Г&E, N / ВА-5			PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND							
and the second of Diament December 1	0604561N / SSN-21 Develop	ments	1946 / SSN-21 Developme	ents						
accomplishments/Planned Program										
	FY 05	FY06	FY07							
Accomplishments/Effort/Subtotal Cost	0.968	0.574	0.000							
RDT&E Articles Quantity										
FY 05 Accomplishment and FY-06 Plan: Conduc	t follow-on OPEVAL testing for the cla	ass.								
	FY 05	FY06	FY07							
Accomplishments/Effort/Subtotal Cost	0.175	0.000	0.000							
RDT&E Articles Quantity										
										
FY-05 Accomplishment: Completion of compone	ent shock tests and analysis for CFE a	and GFE in compliance	with Class Plans and DOT&E re	equirements. Perform shock qualifications for the						
				' '						
Global Command and Control System (GCCS) fo	ir the Common Submarine Radio Roo	m (CSRR).								
	EV.05	F)/00	EV07							
	FY 05	FY06	FY07							
Accomplishments/Effort/Subtotal Cost	1.500	2.000	1.500							
RDT&E Articles Quantity										
ND FAL /IIIOIOO Qualitity										
FY-05 Accomplishment, FY-06, FY-07 Plan: Sy	stom toot and validation, and	o action offerts are ris-	and for the CEAEAC Ctation City	Custom dayalanment angineering and						

R-1 SHOPPING LIST - Item No.115

Note: Please refer to RDT&E,N PE0604561N/9233 R-2 and OPN BLI 094200/H1RC08 P5 budget exhibits for associated SEAFAC Upgrade Program funding.

CLASSIFICATION:

	DATE:	February 2006						
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME	PROJECT NUMBER AND					
T&E, N / BA-5	0604561N / SSN-21 Develo		1946 / SSN-21 Developme					
accomplishments/Planned Program (Cont.)								
, , ,	FY 05	FY06	FY07	1				
Accomplishments/Effort/Subtotal Cost	0.198	0.237	0.663					
RDT&E Articles Quantity	0.190	0.237	0.003					
	FY 05	FY06	FY07					
Accomplishments/Effort/Subtotal Cost	FY 05 0.125	FY06 0.067	FY07 0.060					
RDT&E Articles Quantity	0.125	0.067	0.060					
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity FY-05 Accomplishment, FY-06, FY-07 Plan: Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	0.125	0.067	0.060					

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		DATE:			
					February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AN		PROJECT NUMBER AND NAME		
RDT&E, N / BA-5	0604561N / SSN-21 Developments		1946 / SSN-21 Developments		
C. PROGRAM CHANGE SUMMARY:					
Funding:	FY 2005	FY 2006	FY 2007		
FY 06 President's Budget	2.972	2.928	3.462		
FY 07 President's Budget	2.966	2.878			
Total Adjustments	-0.006	-0.050	-0.202		
Summary of Adjustments					
Contract Support Reduction			-0.017		
NWCF Civpers Efficiencies			-0.037		
N7 Respread of Contractor Support			-0.003		
SBIR FY05	-0.008				
Nuclear Physical Security	0.001				
NAVSEA Civiilian Personnel Funding			-0.167		
Trusted Foundry (OSD-14)	0.003				
Inflation			0.015		
Fuel Price Adjustments			0.005		
CIVPERS Pay Raise Rate			0.002		
Sec. 8026(f): Federally Funded R&D (-0.006			
Sec. 8125 Revised Economic Assump	tions	-0.013			
Congressional Action 1% Reduction	-0.002	-0.031			
Dept. of Energy Transfer Subtotal	-0.002	-0.050	-0.202		
Schedule:					
Not applicable.					
Technical:					
Not applicable.					
τοι αρριιοασίο.					
	D 4 CHODIN				

CLASSIFICATION:

EXHIBIT R-2, RDT&E	Budget Item Justification							DATE:			
									Februa	ary 2006	
APPROPRIATION/BUDGE	ET ACTIVITY	PROGRAM ELE	MENT NUMBE	R AND NAME		PROJECT NUME	BER AND N	AME			
RDT&E, N /	BA-5	0604561N / SSN	N-21 Developme	ents		1946 / SSN-21 D	s				
D. OTHER PROGR	RAM FUNDING SUMMARY:										
Line Item No. & N	<u>Name</u>	FY 2005	FY 2006	FY 2007	FY 2008	<u>FY 2009</u>	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	Total <u>Cost</u>
(U) P.E. 06045	P-398	17.079	6.511	0.000	0.000	0.000	0.000	0.000	0.000		8086.156 27.300
E ACQUIEITION ET	DATECY										

E. ACQUISITION STRATEGY:

- (U) Delivered three SEAWOLF submarines under cost cap.
- (U) To continue to correct SEAWOLF Acoustics deficiencies.
- (U) To increase commonality with Virginia Class Submarines.
- (U) Continue to review all areas for possible cost reductions.

F. MAJOR PERFORMERS:

Naval Surface Warfare Center (NSWC) Carderock, MD - FY-05 \$2.095 , FY06 - \$2.095M, FY07 \$3.020 M (Acoustics, NPE, Shock, Test & Evaluation, SEAFAC and Tech Insertion). Contract awards were Oct 2004 for FY05. Contract awards scheduled for Jan 2006 (FY06), and October 2006 (FY07).

Naval Undersea Warfare Center (NUWC) Newport RI - FY-05 \$.595K (Test and Evaluation) FY06 - \$302K (Test and Evaluation). Contract was awarded on Oct 2004 for FY05 and contract award is scheduled for Jan 2006 for FY06.

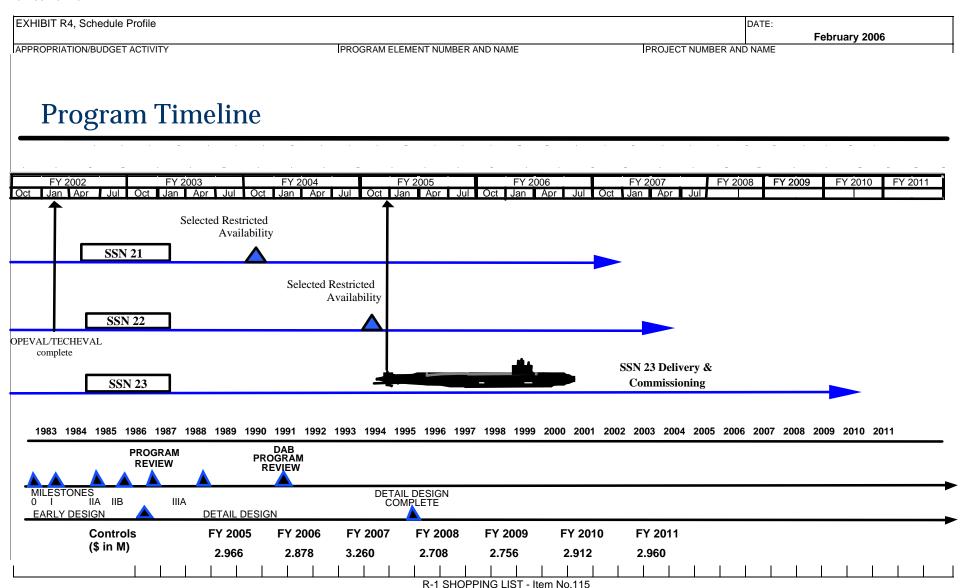
CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis	(page 1)					February 2006						
APPROPRIATION/BUDGET A	CTIVITY	PROGRAM	ELEMENT	-		PROJECT NUMBER AND NAME						
RDT&E, N / BA-	5	0604561N	'SSN-21 D	evelopmen	ts	1946 / SSI	N-21 Devel					
Cost Categories	Contract	Performing	Total		FY 05		FY 06		FY 07			
	Method	Activity &			Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location			Date	Cost	Date		Date	Complete		of Contract
Primary Hardware Developme		NSWC Carderock/Various		1.500		2.000		1.500			5.000	_
Ancillary Hardware Developme												-
Systems Engineering		General Dynam Groton C		0.000		0.000		0.000	Various	0.000		
Systems Engineering	SS/CPFF	NGNN Newport News VA	119.530	0.000	Various	0.000	Various	0.000	Various	0.000	119.530	119.530
Systems Engineering	WR/RC	NSWC Carderock, MD	320.331	0.000	Various	0.095	Various	1.520	Various	3.599	325.545	1
Systems Engineering	WR/RC	NUWC Newport, RI	50.337	0.595	Various	0.302	Various	0.000	Various	0.000	51.234	,
Systems Engineering	Various	Various	470.629	0.165	Various	0.108	Various	0.110	Various	7.335	478.347	
Licenses											0.000	,
Tooling											0.000	
GFE											0.000	1
Award Fees											0.000	,
Subtotal Product Development			1,330.498	2.260		2.505		3.130		10.934	1,349.327	
Remarks:												
Development Support											0.000	1
Software Development											0.000	ı
Training Development											0.000	ı
Integrated Logistics Support											0.000	,
Configuration Management											0.000	1
Technical Data											0.000	,
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

CLASSIFICATION:

								DATE:					
Exhibit R-3 Cost Analysis (p	age 2)					February 2006							
APPROPRIATION/BUDGET AC	ΓΙΥΙΤΥ	PROGRAM				PROJECT NUMBER AND NAME							
RDT&E, N / BA-5		0604561N		evelopmen		1946 / SSN-21 Developments							
3		Performing	Total PY	EV 05	FY 05		FY 06		FY 07		0	Tatal	Tanast Value
		Activity & Location	Cost	FY 05 Cost	Award Date		Award Date		Award Date		Cost to Complete		Target Value of Contract
Developmental Test & Evaluation				0.000		0.000	Date	0.000	Date		0.000	68.994	68.994
Developmental Test & Evaluation		NSWC Carderock MD	96.091	0.000	Various	0.000		0.000			0.000	96.091	
Developmental Test & Evaluation		Various	124.795	0.666		0.333	Various	0.090	Various		0.402		
Operational Test & Evaluation												0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal T&E			289.880	0.666		0.333		0.090			0.402	291.371	
Remarks:													
Contractor Engineering Support												0.000	
Government Engineering Support												0.000	
Program Management Support & ET	Various	Various	48.435	0.000		0.000		0.000			0.000	48.435	
Travel			0.038	0.040		0.040		0.040			0.000	0.158	
Labor (Research Personnel)												0.000	
SBIR Assessment			0.043									0.043	
Subtotal Management			48.516	0.040		0.040		0.040			0.000	48.636	
Remarks:													
Total Cost			1,668.894	2.966		2.878		3.260			11.336	1,689.334	_
Remarks:													

CLASSIFICATION:



^{*} Not required for Budget Activities 1, 2, 3, and 6