

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE																																								
					FEBRUARY 2008																																								
APPROPRIATION / BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE / PROJECT NO.																																										
RDT&E, DEFENSE-WIDE / 7			PE 1160483BB SOF Underwater Systems/S0417																																										
COST (Dollars in Millions)	FY07	FY08	FY09	FY10	FY11	FY12	FY13	Cost to Complete	Total Cost																																				
PE1160483BB			3.142	.992	.991	.496	.496	Cont.	Cont.																																				
S0417, Underwater Systems Advanced Development			3.142	.992	.991	.496	.496	Cont.	Cont.																																				
<p><i>A new program element (PE)(1160483BB) was established beginning in FY 2009 for SOF Underwater Systems. FY 2009-2013 resources were moved from PE 1160404BB, Special Operations Tactical Systems Development.</i></p> <p>A. Mission Description and Budget Item Justification: This PE provides for development of Naval Special Warfare Underwater Systems support items used during infiltration/extractions, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other direct action missions of Special Operations Forces (SOF). The capabilities and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF Maritime Missions.</p> <p>B. Program Change Summary:</p> <table border="0"> <thead> <tr> <th></th> <th><u>FY07</u></th> <th><u>FY08</u></th> <th><u>FY09</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Current President's Budget</td> <td></td> <td></td> <td>3.142</td> </tr> <tr> <td>Total Adjustments</td> <td></td> <td></td> <td>3.142</td> </tr> <tr> <td> Congressional Program Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Reprogrammings</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Other Program Adjustments</td> <td></td> <td></td> <td>3.142</td> </tr> <tr> <td> SBIR Transfer</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	Previous President's Budget				Current President's Budget			3.142	Total Adjustments			3.142	Congressional Program Reductions				Congressional Increases				Reprogrammings				Other Program Adjustments			3.142	SBIR Transfer			
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE FEBRUARY 2008
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7	R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160483BB SOF Underwater Systems/S0417	
<p>Funding:</p> <p>FY07: No change.</p> <p>FY08: No change.</p> <p>FY09: A new PE (1160483BB) was established beginning in FY 2009 for SOF Underwater Systems. FY 2009-2013 resources were moved from PE 1160404BB, Special Operations Tactical Systems Development.</p> <p>Schedule: None.</p> <p>Technical: None</p>		

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008
Appropriation/Budget Activity RDT&E BA # 7	Underwater Systems Advanced Development/Project S0417	

Cost (\$ in millions)	FY07	FY08	FY09	FY10	FY11	FY12	FY13
Underwater Systems	.614	1.753	3.142	.992	.991	.496	.496
RDT&E Articles Quantity	1						

A new program element (PE)(1160483BB) was established for this project beginning in FY 2009. FY 2009-2013 resources were moved from PE 1160404BB, Special Operations Tactical Systems Development.

A. Mission Description and Budget Item Justification: This project funds the development of Naval Special Warfare support items used during hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other direct action missions. Sub-projects include:

- Non-Gasoline Burning Outboard Engine (NBOE). Evaluation of a submersible alternative fuel outboard engine for use on Special Operations Forces (SOF) Combat Rubber Raiding Craft.
- Undersea Systems. Development of undersea systems, which provide SOF combat swimmers with the necessary diving and diving related equipment to fulfill assigned underwater combat missions. Includes the following:
 - SEAL Delivery Vehicle (SDV). Develop replacements for obsolete and/or unsupportable electronics with current technology to improve safety, reliability and performance. Conduct concept and technology development for potential replacement platform (SDV Next Generation.)

B. Accomplishments/Planned Program

	FY07	FY08	FY09
NBOE	.614		
RDT&E Articles Quantity			
FY07 Evaluated submersible alternative outboard engines.			
	FY07	FY08	FY09
SEAL Delivery Vehicle (SDV)		1.753	3.142
RDT&E Articles Quantity			
FY08 Concept and technology development/demonstration for potential follow-on platform. Continues to develop and upgrade/replace obsolete and/or unsupportable electronic equipment.			

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008
Appropriation/Budget Activity RDT&E BA # 7	Underwater Systems Advanced Development/Project S0417	

FY09 Continues concept and technology development for potential follow-on platform.

C. Other Program Funding Summary:

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	To <u>Complete</u>	Total <u>Cost</u>
PROC, SOF Maritime Equip		1.245	.198	.099	.099	.099	.099	TBD	TBD
PROC, MK8 MOD1 SDV	2.463	8.682	7.061	1.487	2.825	9.913	2.974	TBD	TBD

D. Acquisition Strategy:

- NBOE. Develop/conduct market survey for existing commercial off the shelf engines that meet revised requirements. Conduct performance testing on candidate engines with follow-on suitability tests. Evaluate potential technical modifications as required.
- SDV. This effort replaces obsolete and/or unsupportable electronics equipment with current equipment. Identification and development of equipment for installing, upgrading and/or replacing systems on the SDV will be accomplished through either Best-Value acquisition or, where appropriate, original equipment manufacturer replacement efforts. Conduct concept studies and technology development for a potential next generation platform following completion of an analysis of alternatives in FY08.

Exhibit R-3 RDT&E Project Cost Analysis						DATE: FEBRUARY 2008					
APPROPRIATION / BUDGET ACTIVITY				SOF Underwater Systems/PE1160483BB							
RDT&E DEFENSE-WIDE / 7				Underwater Systems Advance Development/S0417							
Actual or Budget Value (\$ in millions)											
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	Budget Cost FY07	Award Date FY07	Budget Cost FY08	Award Date FY08	Budget Cost FY09	Award Date FY09	To Complete	Total Program
Electronic Obsolescence SEAL Delivery Vehicle (SDV)	WR	NSWC NSWC, Panama City, FL	0.201			0.500	Jan-08				0.701
Subtotal Product Dev			0.201	0.000		0.500		0.000			0.701
Remarks											
Concept and Technology Development SDV	WR	NSWC NSWC, Panama City, FL				1.253	Various	3.142	Dec-08	Cont.	Cont.
Subtotal T&E			0.000	0.000		1.253		3.142		Cont.	Cont.
Remarks											
Primary Hardware											
Subtotal Performance Testing				0.000							0.000
Performance Testing Non-Gasoline Burning Outboard Engine	WR	NSWC Panama City FL		0.614	Feb-07						0.614
Subtotal Performance Testing				0.614							0.614
Remarks											
Total Cost			0.201	0.614		1.753		3.142		Cont.	Cont.
Remarks:											

Exhibit R-4, RDT&E Program Schedule Profile											Date: FEBRUARY 2008																								
Appropriation/Budget Activity				Program Element Number and Name												Project Number and Name																			
RDT&E/7				PE1160483BB/Special Operations Forces Underwater Systems												Project S0417/Underwater System Advanced Development																			
Fiscal Year				2007				2008				2009				2010				2011				2012				2013							
				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				
SEAL Delivery Vehicle (SDV)																																			
Develop and Test Improved Electronics								▲	—	▲																									
SDV Next Generation												▲	—	▲																					
Technology Development								▲	—	▲																									
Technology Demonstration												▲	—	▲										▲											
Management, Support FOT&E								▲	—	▲																						▲			
MS B															▲																				
Non-Gasoline Burning Outboard Engine																																			

