

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE MAY 2009
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APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7	R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160483BB SOF Underwater Systems/S0417
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COST (Dollars in Millions)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	Cost to Complete	Total Cost
PE1160483BB		8.727	3.452						Cont.	Cont.
S0417, Underwater Systems		8.727	3.452						Cont.	Cont.

A. Mission Description and Budget Item Justification: This program element provides for engineering & manufacturing development (formerly system development & demonstration) and operational systems development of small combat underwater submersibles and underwater support systems and equipment. This program element also provides for pre-acquisition activities (material solutions analysis, advanced component development & prototypes) to respond to emergent requirements. These submersibles, systems, and equipment are used by Special Operations Forces (SOF) in the conduct of infiltration/extraction, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions.

B. Program Change Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Previous President's Budget		3.142	0.992
Current President's Budget		8.727	3.452
Total Adjustments		5.585	2.460
Congressional Program Reductions		0.015	
Congressional Increases		5.600	
Reprogrammings			
Other Program Adjustments			2.460

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<p>Funding:</p> <p>FY09: Net increase of \$5.585 million is due to a Congressional reduction for Section 8101 (-\$0.015 million) and the Congressional adds for Technology for Shallow Water SOF Mobility (\$2.400 million) and SEAL Delivery Vehicle Integrated Combat System (\$3.200 million).</p> <p>FY10: Net increase of \$2.460 million funds the Shallow Water Combat Submersible technology development and system design & development efforts (\$2.490 million) and decrease for economic assumptions (-\$0.048 million).</p> <p>Schedule: None.</p> <p>Technical: None</p>		

Exhibit R-2a, RDT&E Project Justification		Date: MAY 2009
Appropriation/Budget Activity RDT&E BA # 7	Underwater Systems Advanced Development/Project S0417	

Cost (\$ in millions)	FY08*	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Underwater Systems	1.742	8.727	3.452					
RDT&E Articles Quantity								

****FY2008 funds are in Program Element 1160404BB.***

A. Mission Description and Budget Item Justification: This project provides for product improvements on legacy combat underwater submersible systems and development of new combat submersibles. Also provides for 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 of the submersible systems and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. Sub-projects include:

- Combat Submersibles. Development of undersea systems that provide SOF combat swimmers with the necessary diving and dive related equipment to fulfill assigned underwater combat missions. Includes the following:
- SEAL Delivery Vehicle. Develop replacements for obsolete and/or unsupportable electronics with current technology to improve safety, reliability and performance.
- Shallow Water Combat Submersible. Conduct concept and technology development for the follow-on platform for the Seal Delivery Vehicle to include additional capability.

B. Accomplishments/Planned Program

	FY08	FY09	FY10	FY11
SEAL Delivery Vehicle	1.742	3.277		
RDT&E Articles Quantity				

FY08 Conducted concept and technology development/demonstration for potential follow-on platform. Continued to develop and upgrade/replace obsolete and/or unsupportable electronic equipment.

FY09 Continue concept and technology development for follow-on platform.

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Appropriation/Budget Activity RDT&E BA # 7	Underwater Systems Advanced Development/Project S0417	

	FY08	FY09	FY10	FY11
Technology for Shallow Water Mobility		2.335		
RDT&E Articles Quantity				
FY09 This initiative was a Congressional add. Development of advanced hull technologies for shallow water combat submersible.				
	FY08	FY09	FY10	FY11
Integrated Combat System		3.115		
RDT&E Articles Quantity				
FY09 This was a Congressional add. Integrates electronics suite backbone.				
	FY08	FY09	FY10	FY11
Shallow Water Combat Submersible			3.452	
RDT&E Articles Quantity				
FY10 Continues concept and technology development for a new Shallow Water Combat Submersible.				

C. Other Program Funding Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>	To <u>Complete</u>	Total <u>Cost</u>
PROC, SOF Maritime Equip	1.245	.197	.099						Cont.	Cont.
PROC, MK8 MOD1 SDV	8.692	7.040	1.463						Cont.	Cont.

D. Acquisition Strategy:

- Seal Delivery Vehicle. This effort replaces obsolete and/or unsupportable electronics equipment with current equipment. Identification and development of equipment for installing, upgrading and/or replacing systems 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.
- Shallow Water Combat Submersible. This is the follow on platform to the Seal Delivery Vehicle. The acquisition strategy has not been defined yet.

Exhibit R-3 RDT&E Project Cost Analysis

DATE: MAY 2009

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 FY09	Award Date FY09	Budget Cost FY10	Award Date FY10	Budget Cost FY11	Award Date FY11	To Complete	Total Program
Systems Engineering											
SDV Mk 8	WX	NSWC, Panama City, FL	0.373	3.277	Dec-08					Cont.	Cont.
Shallow Water Combat Submersible	WX	NSWC, Panama City, FL	1.369			3.452	Dec-09			Cont.	Cont.
Technology for Shallow Water Mobiltiy	WX	NSWC, Panama City, FL		2.335	Dec-08						
Integrated Combat System	WX	NSWC, Panama City, FL		3.115	Dec-08						
Subtotal T&E			1.742	8.727		3.452				Cont.	Cont.
Remarks											
Testing											
Shallow Water Combat Submersible		TBD									
Subtotal Performance Testing											
Primary Hardware											
Shallow Water Combat Submersible		TBD									
Subtotal Performance Testing											
Management Support											
Subtotal Performance Testing											
Total Cost			1.742	8.727		3.452				Cont.	Cont.
Remarks:											

