

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 1160426BB Special Operations (SO) Advanced SEAL Delivery System Development/S0418
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COST (Dollars in Millions)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	Cost to Complete	Total Cost
PE1160426BB	19.658	8.666	1.321							495.492
S0418, SO Advanced SEAL Delivery System Dev	19.658	8.666	1.321							495.492

A. Mission Description and Budget Item Justification: This program element provides for development, testing, and integration of specialized equipment for the Advanced SEAL Delivery System (ASDS). Specifically, this program element provides for the ASDS-1 Improvement Program with the goal of improving the performance to the required level and insertion of technologies to avoid obsolescence. The Improvement Program consists of integration, testing and installation of reliability improvements resulting from a series of critical system reviews. The improved performance of ASDS-1 will permit small, highly trained forces to conduct required operations to operate in denied areas controlled by a sophisticated threat that mandates SOF systems remain technologically superior to threat forces to ensure mission success.

B. Program Change Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Previous President's Budget	19.772	7.090	1.488
Current President's Budget	19.658	8.666	1.321
Total Adjustments	-0.114	1.576	-0.167
Congressional Program Reductions		-0.024	
Congressional Increases		1.600	
Reprogrammings			
Other Program Adjustments			-0.167
SBIR Transfer	-0.114		

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<p>Funding:</p> <p>FY08: Decrease of -\$0.114 million is due to an adjustment for the Small Business Innovative Research account.</p> <p>FY09: Net increase of \$1.576 million is due to a congressional reduction for Section 8101 (-\$0.024 million) and a Congressional add for the Lithium Ion Battery Safety Detection and Control of Impending Catastrophic Failure (\$1.600 million).</p> <p>FY10: Net decrease of -\$0.167 million is due to realignment to higher command priorities (-\$0.149 million) and economic assumptions (-\$0.018 million).</p> <p>Schedule: None.</p> <p>Technical: None.</p>	

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>		Date: MAY 2009
Appropriation/Budget Activity RDT&E BA # 7	Special Operations (SO) Advanced SEAL Delivery System Development(ASDS)/Project S0418	

Cost (\$ in million)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
SO ASDS Development	19.658	8.666	1.321					
RDT&E Articles Quantity								

**A. Mission Description and Budget Item Justification:** This project provides for development, testing, and integration of specialized equipment for the Advanced SEAL Delivery System (ASDS). Specifically, this project provides for the ASDS-1 Improvement Program (AIP) with the goal of improving the performance to the required level and insertion of technologies to avoid obsolescence and address emergent issues. The AIP consists of a series of critical system reviews, at sea operations, and the development, integration, and testing of a series of modifications to improve the performance of the ASDS-1. The improved performance of ASDS-1 will permit small, highly trained forces to conduct required operations to operate in denied areas controlled by a sophisticated threat that mandates SOF systems remain technologically superior to threat forces to ensure mission success.

**B. Accomplishments/Planned Program**

Cost (\$ in million)	FY08	FY09	FY10	FY11
ASDS	19.658	7.110	1.321	
RDT&E Article Quantity				

FY08 Continued execution of the AIP. Rand completed an independent assessment of alternate materiel solutions. The Executive IPT selected a hybrid of two submersible alternatives for additional analysis and assessment.

FY09 Continue execution of the AIP. One noteworthy emergent issue was the November 08 fire that severely damaged many ASDS sub-systems that are no longer in production. The AIP is supporting the fire repair efforts by examining, developing, and testing alternate technology and sub-systems to replace obsolete fire-damaged systems. Perform government materiel solutions analysis of the hybrid alternative. Solicit industry information and proposals for future hybrid alternative technology development activities.

FY10 Continue execution of the AIP. Continue alternate materiel solutions analysis and technology development (if necessary).

Exhibit R-2a, RDT&E Project Justification		Date: MAY 2009
Appropriation/Budget Activity RDT&E BA # 7	Special Operations (SO) Advanced SEAL Delivery System Development(ASDS)/Project S0418	

	FY08	FY09	FY10	FY11
Lithium Battery Safety Detection		1.556		
RDT&E Articles Quantity				

FY09 This was a Congressional add. Research and develop failure detection and control for battery system.

C. Other Program Funding Summary:										To	Total
	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>		<u>Complete</u>	<u>Cost</u>
PROC, ASDS-1	10.549	5.743	5.326								493.617

D. Acquisition Strategy:

- Under Secretary of Defense, Acquisition, Technology and Logistics Acquisition Decision Memorandum (ADM) dated 06 April 2006 canceled the ASDS production program because it was not ready to proceed and directed the establishment of an ASDS-1 Improvement Program (AIP) and the assessment of alternative materiel solutions to meet the requirement.
- The AIP is managed by Naval Sea Systems Command, PMS-399, SOF Undersea Mobility Office. In July 2007, after ASDS-1 had demonstrated the effectiveness of a number of significant reliability improvements, USSOCOM reissued its Fielding and Deployment Release and returned the ASDS-1 to service. The AIP activities are performed under a variety of contracts by Navy shipyards and warfare centers and by the system and sub-system original equipment manufacturers. The assessment of alternative materiel solutions consists of an initial comprehensive analysis of alternatives by an independent organization (Rand Corporation) followed by an in-depth analysis of the selected alternative and evaluation of technology readiness by DOD and Industry. Industry proposals for technology development activities will be solicited via competitive processes.

Exhibit R-3 RDT&E Project Cost Analysis

DATE: MAY 2009

APPROPRIATION / BUDGET ACTIVITY Special Operations Tactical Systems Development/PE1160426BB  
 RDT&E DEFENSE-WIDE / 7 Advanced SEAL Delivery System Development/S0418

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
Primary Hardware Dev											
ASDS	CPIF/C	Northrop-Grumman, Newport News Ship Yard, VA	310.026								310.026
ASDS	CPFF	Northrop-Grumman, Newport News Ship Yard, VA	8.605								8.605
ASDS P3I and Host Support	Various	Various	37.280								37.280
ASDS Improvements	Various	Various	52.726	7.110	Various	1.321	Various				61.157
Subtotal Product Dev			408.637	7.110		1.321					417.068
Remarks											
Technical Data											
ASDS	Various	Northrop-Grumman, Newport News Ship Yard, VA	10.894								10.894
Subtotal Supt.			10.894								10.894
Remarks											
Test & Evaluation											
Operational Test & Evaluation (ASDS)	Various	OPTEVFOR, Norfolk, VA	6.285								6.285
Host Testing (ASDS)	Various	NAVSEA, Washington Navy Yard	20.615								20.615
Live Fire Test & Evaluation (ASDS)	Various	NAVSEA, Washington Navy Yard	2.995								2.995
Subtotal T&E			29.895								29.895
Remarks											
Management											
ASDS	Various	Various	14.085								14.085
Lithium Ion Safety		NSWC Crane In		1.556	Sep-09						1.556
Subtotal Management			14.085	1.556							15.641
Remarks:											
Total Cost			463.511	8.666		1.321					473.498
Remarks:											



