

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>June 2001</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY/BA-4</b>					R-1 ITEM NOMENCLATURE SSGN 0603559N					
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost	0.000	37.416	30.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
SSGN Trident Conversion/F2413	0.000	37.416	30.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles										
<p>A. (U) Mission Description and Budget Item Justification: The SSGN will establish a robust and covert land attack strike and Special Operating Force (SOF) platform fully integrated into a joint battlespace with minimal external support. The platform will enable launch of 100 attack missiles (e.g. Tomahawk) in a single salvo. The SOF campaign will influence events ashore prior to the commencement of hostilities. SOF platform capabilities will include support for over 60 SOF personnel and two Advanced Seal Delivery Systems or Dry Deck Shelters for periods up to 90 days. The platform replaces two dedicated SOF submarines scheduled for inactivation, the USS Polk and USS Kamehameha.</p> <p>(U) Program Accomplishments and Plans:</p> <p>1. (U) FY 2000 Accomplishments :</p> <p style="padding-left: 20px;">(U) FY 2000 efforts are funded under PE 0603563N .</p> <p>(U) FY 2001 Plan:</p> <p>2. (U) (\$12.542) Conduct design activities for risk mitigation, alternative selection, and conversion planning.</p> <p style="padding-left: 20px;">(U) (\$15.428) Commence Attack Weapons Systems design and risk mitigation activities which will include: Missile Tube and Launcher/Canister design, test plan development, handling equipment development, and test program fabrication, hardware and software design for the Attack Weapons Systems Fire Control System and design of navigation subsystems.</p> <p style="padding-left: 20px;">(U) (\$ 8.670) Commence engineering studies and efforts for ship control, safety, hydrodynamics, test and evaluation, and required technical and milestone documentation.</p> <p style="padding-left: 20px;">(U) (\$ 0.776) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.</p>										

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**Exhibit R-2, RDT&E Budget Item Justification**  
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<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY/BA-4</b>	SSGN 0603559N																					
<p>3. (U) FY 2002 Plan:</p> <p>(U) (\$6.000) Conduct platform preliminary design - ship arrangement drawings, ship system diagrams, lock-out chamber engineering development, and platform conversion HM&amp;E engineering development.</p> <p>(U) (\$18.000) Conduct Tomahawk Attack Weapons System Preliminary Design - attack weapons control system (Fire Control) engineering development, Preliminary Tomahawk Weapons Control System software development, Multiple All-Up-Round Canister (MAC) Concept Development and Underwater missile launch r reduction.</p> <p>(U) (\$6.000) project management support costs - Milestone documentation development, Program planning/schedule development/critical path analysis/shipyard liaison, CCS/Electronics technical engineering, integration, and weapons systems safety support, HM&amp;E (hydro/ship control/platform integration/signatures/etc)engineering and technical design support.</p> <p>B. (U) Program Change Summary:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="width: 40%;"></th> <th style="text-align: center;">FY 2000</th> <th style="text-align: center;">FY 2001</th> <th style="text-align: center;">FY 2002</th> </tr> </thead> <tbody> <tr> <td>FY 2001 President's Budget:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">34.762</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td>Appropriated Value:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">34.762</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td>Adjustments to FY2001 Appropriated Value/ FY 2001 President's Budget:</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">2.654</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td> FY 2002 President's Budget Submit</td> <td style="text-align: center;"> 0.000</td> <td style="text-align: center;"> 37.416</td> <td style="text-align: center;"> 0.000</td> </tr> </tbody> </table> <p>(U) Change Summary Explanation:</p> <p>(U) Funding: FY 2001 funding change is -\$ .264 .7% Pro-Rata Congressional reduction; +\$3.000 Congressional adjustment; -\$ .82 Government wide Rescission.</p> <p>(U) Schedule: Not Applicable.</p>				FY 2000	FY 2001	FY 2002	FY 2001 President's Budget:	0.000	34.762	0.000	Appropriated Value:	0.000	34.762	0.000	Adjustments to FY2001 Appropriated Value/ FY 2001 President's Budget:	0.000	2.654	0.000	 FY 2002 President's Budget Submit	 0.000	 37.416	 0.000
	FY 2000	FY 2001	FY 2002																			
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**Exhibit R-2, RDT&E Budget Item Justification**  
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APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY/BA-4</b>			R-1 ITEM NOMENCLATURE SSGN 0603559N		
C. (U) Other Program Funding Summary:					
	FY 2000	FY 2001	FY 2002	To Complete	Total Cost
(U) SCN - SSGN Conversion	0.000	0.000	86.400	0	0.000
- (U) Related RDT&E:					
(U) PE 0603563N Ship Concept Advanced Design					
D. (U) Acquisition Strategy					
(U) To refuel, overhaul, convert and deliver four Trident Submarines into land attack strike and Special Operating Force platforms.					
E. (U) Schedule Profile:					
(U) See attached Planning Schedule.					

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**Exhibit R-2, RDT&E Budget Item Justification**  
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**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>June 2001</b>		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
<b>RDT&amp;E, N/BA-4</b>			SSGN 0603559N									
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	
Ancillary Hardware Development											0.000	
Systems Engineering	SS/CPFF	General Dynam Groton, CT	0.000	0.000		13.673	Various			0.000	Continuing	
Systems Engineering	WR	NSWC Carderock, MD	0.000	0.000		2.000	10/00			0.000	Continuing	
Systems Engineering	WR/RC	NSWC Dahlgren, VA	0.000	0.000		1.200	10/00			0.000	Continuing	
Systems Engineering	WR	NUWC Newport, RI	0.000	0.000		1.520	Various			0.000	Continuing	
AWS Risk Reduction	C/CPFF	Various	0.000	0.000		12.503	10/00			0.000	Continuing	
AWS Concept Exploration	WR/MIPR	NAVAIR	0.000	0.000		1.725	10/00			0.000	Continuing	
Systems Engineering	Various	Various	0.000	0.000		1.237	Various			0.000	Continuing	
Award Fees											Continuing	
Subtotal Product Development			0.000	0.000		33.858		0.000		0.000	Continuing	
Remarks:												
Development Support Equipment											Continuing	
Software Development											Continuing	
Training Development											Continuing	
Integrated Logistics Support											Continuing	
Configuration Management											Continuing	
Technical Data											Continuing	
GFE											Continuing	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	Continuing	
Remarks:												

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**Exhibit R-3, Project Cost Analysis**  
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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>June 2001</b>		
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT			PROJECT NAME AND NUMBER					
<b>RDT&amp;E, N/BA-4</b>				SSGN 0603559N								
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Developmental Test & Evaluation											0.000	
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support & ETB	Various	Various	0.000	0.000		3.508	Various			0.000	3.508	
Travel						0.050					0.050	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		3.558		0.000		0.000	3.558	
Remarks:												
Total Cost			0.000	0.000		37.416		0.000		0.000	3.558	
Remarks:												

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**Exhibit R-3, Project Cost Analysis**  
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