

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2000</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY/BA-4</b>					R-1 ITEM NOMENCLATURE SSGN 0603559N					
COST (\$ in Millions)		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost		<b>0.000</b>	<b>0.000</b>	<b>34.762</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>34.762</b>
SSGN Trident Conversion/S2413		<b>0.000</b>	<b>0.000</b>	<b>34.762</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>34.762</b>
Quantity of RDT&E Articles										<b>0.000</b>

A. (U) Mission Description and Budget Item Justification: This program supports initial design efforts for the conversion of Ohio Class submarines to conventional, land attack, SSGN submarines. The SSGN is envisioned to provide a robust and covert land attack strike and Special Operating Force (SOF) platform fully integrated into a joint battlespace with minimal external support. The goals of the platform design are to include the capability to launch in excess of 100 attack missiles (e.g. Tomahawk) in a single salvo, and over 60 SOF personnel and two Advanced Seal Delivery Systems or Dry Deck Shelters for periods up to 90 days. This capability would allow the SSGN to replace two dedicated SOF submarines scheduled for inactivation, the USS James K. Polk and USS Kamehameha.

(U) Program Accomplishments and Plans:

1. (U) FY 1999 Accomplishments :

(U) - FY 1999 feasibility studies were accomplished under PE 0603563N.

(U) FY 2000 Plan:

2. (U) - FY 2000 efforts are funded under PE0603563N (\$9.320M).

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SSGN 0603559N

3. (U) FY 2001 Plan

(U) (\$13.900) Conduct design activities for risk mitigation, alternative selection, and conversion planning.

(U) (\$15.400) 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.

(U) (\$5.462) Commence engineering studies and efforts for ship control, safety, hydrodynamics, test and evaluation, and required technical and milestone documentation.

B. (U) Program Change Summary:

FY 2000 President's Budget:	FY 1999	FY 2000	FY 2001
Appropriated Value:	0.000	0.000	0.000
Adjustments to FY 1999/2000 Appropriated Value:	0.000	0.000	0.000
FY 2000 President's Budget:	0.000	0.000	0.000
FY 2001 President's Budget	0.000	0.000	34.762

(U) Change Summary Explanation:

(U) Funding: A new Program Element (0603559N) was established for the FY 2001 SSGN Trident Conversion design effort.

(U) Schedule: Not Applicable.

(U) Technical Change: Not Applicable.

R-1 SHOPPING LIST - Item No. 46-2 of 46-6

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

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SSGN 0603559N

C. (U) Other Program Funding Summary:

	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Cost
(U)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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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**RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-4**

SSGN 0603559N

Fiscal Year | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010

Milestones

▲ MS 0  
 ▲ MS I/II  
 ▲ IOC

\*Note - Notional Milestone schedule - Dates/Structure under review.

Design/  
Development

Concept and Design Studies | Preliminary Design and Risk Reduction Studies | Detail Design

Production

Canister Production

- MS 0 - FY 2000
- MS I/II - early FY 02
- IOC - FY 07

ERO/  
Conversion  
Availabilities

SSBN 726 | ERO | Conversion  
 SSBN 728 | ERO | Conversion  
 SSBN 727 | ERO | Conversion  
 SSBN 729 | ERO | Conversion

Test and  
Evaluation

DT-IA/OT-IA | DT-IIA/OT-IIA | DT-IIB/OT-IIB

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Exhibit R-3 Cost Analysis (page 1)							DATE: <b>February 2000</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 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 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		0.000		10.412	Various	0.000	10.412	
Systems Engineering	WR/RC	NSWC Carderock, MD	0.000	0.000		0.000		2.000	10/00	0.000	2.000	
Systems Engineering	WR	NUWC Newport, RI	0.000	0.000		0.000		1.976	Various	0.000	1.976	
AWS Risk Reduction	C/CPFF	Various	0.000	0.000		0.000		7.800	10/00	0.000	7.800	
AWS Concept Exploration	WR/MIPR	NAVAIR	0.000	0.000		0.000		2.250	10/00		2.250	
Systems Engineering	Various	Various	0.000	0.000		0.000		4.924	Various	0.000	4.924	
Award Fees											0.000	
Subtotal Product Development			0.000	0.000		0.000		29.362		0.000	29.362	
Remarks:												
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												

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**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 5 of 6)

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2000</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 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 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 & ET	Various	Various	0.000	0.000		0.000		5.400	Various	0.000	5400.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		0.000		5.400		0.000	5.400	
Remarks:												
Total Cost			0.000	0.000		0.000		34.762		0.000	34.762	
Remarks:												

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