

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)			
APPROPRIATION/BUDGET ACTIVITY		DATE	
RDT&E/BA 4		February 2008	
PROGRAM ELEMENT NUMBER AND NAME 0603563N/SHIP CONCEPT ADVANCED DESIGN		PROJECT NUMBER AND NAME 3161/NAVSEA Tech Authority	
FY09: Fuel Cell At Sea Demonstration prototype construction, Rim Driven Ducted Propulsor prototype construction, Competition for New Risk Area Projects			
Accomplishments/Effort/Subtotal Cost		FY 2007	FY 2008
RDT&E Articles Quantity		0.000	1.173
(U) Ship Engineering & Analysis Technology Center (formerly Hydrodynamic/Hydroacoustic Technology Center (H/HTC)): Provides Government activities, shipbuilders, academia and contractors the following (FY07-FY09): high performance computing systems; commercial and research software libraries; classified and unclassified connectivity; high end data visualization; and collaboration tools/Centralized data repository. Provide the framework of continued world class computing upon which specific task funding will build. (project 2196 in FY06) (CPSD 7)		0	0
Accomplishments/Effort/Subtotal Cost		FY 2007	FY 2008
RDT&E Articles Quantity		0.715	3.842
(U) Future Submarine Design: Develop ship concept studies and evaluate technologies to define the Next Generation Submarine, common SSN-SSBN Hull and Payload Modularity. (CPSD 8)		0	0
FY07: Navy After Next Tech Validations; SUBCODE Concept Design Tool Dev - phase 2; Technical Warrant Holder Concept Validation Support; Submarine Design Processes and Standards Development			
FY08: Navy After Next Tech Validations; Technical Warrant Holder Concept Validation Support; SUBCODE Concept Design Tool Dev - phase 3; Submarine Design Processes and Standards Development			
FY09: Navy After Next Tech Validations; Technical Warrant Holder Concept Validation Support; SUBCODE Concept Design Tool Dev - phase 4; Submarine Design Processes and Standards Development			
Accomplishments/Effort/Subtotal Cost		FY 2007	FY 2008
RDT&E Articles Quantity		1.258	4.036
(U) Embedded Interoperability (I/O) Engineering: Establishes and executes a dedicated process for evaluating the interoperability performance of warfare systems early in the acquisition cycle, prior to certification. Embedded I/O ensures that fewer mission critical system failures/degrade the ultimately fieldedwarfighting capability. Focus on emerging Open Architecture warfare systems. (CPSD 9)		0	0
FY07: Develop tactics, techniques and procedures (TTP) for CVN 69, 74, and 76based on FY06 work; Interoperability test and assessment planning for LCS-1,LPD 18,Develop BFIMS.			
FY08: Develop TTP for LPD 18; Pre-certification for the interoperability test and assessment of CVN 77, CVN 73,LHD 7, DDG Modernization and DDG 1000. EnhanceBFIMS capabilities.			
FY09: Develop TTP for CVN 77 and DDG Modernization based on FY 08 work; Pre-certification for the interoperability test and assessment of LCS 1 & 2, CG Modernization, DDG 1000 and CVN 21 (CVN 78). Develop TTP for LCS 1 & 2 based on FY 09 work.			
		FY 2007	FY 2008
			FY 2009

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PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
0603561N/ADVANCED SUBMARINE SYSTEM DEVELOPMENT		9999/Congressional Add	
9999/Submarine Artificial Intelligence (AI) Based Combat System Kernel		FY 2007	FY 2008
RDT&E Articles Quantity		0.000	2.384
Funds will be used to refine both the Process and Implementation aspects of the AI-based Mission-Focused Command Decision Support Module (MFCDSM) as an important component of the Combat System of the Future; to demonstrate several specific spirals; and to facilitate transitioning a basic capability to the fleet.		0	0
9999/Undersea Launched Missile Studies (ULMS)		FY 2007	FY 2008
RDT&E Articles Quantity		0.000	4.967
This funding will be used to conduct concept studies for a follow-on platform to the OHIO Class submarine and to perform analyses and trade studies to identify necessary R&D to begin in FY 09 and beyond.		0	0
		FY 2009	0.000
			0

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)

DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY

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RDT&E/BA 4

0603561N/ADVANCED SUBMARINE SYSTEM DEVELOPMENT

PROJECT NUMBER AND NAME
9999/Congressional Add

9999/Submarine Artificial-Intelligence (AI) Based Combat System Kernel

FY 2007

FY 2008

FY 2009

RDT&E Articles Quantity

0.000

2.384

0.000

Funds will be used to refine both the Process and Implementation aspects of the AI-based Mission-Focused Command Decision Support Module (MFCDSM) as an important component of the Combat System of the Future; to demonstrate several specific spirals; and to facilitate transitioning a basic capability to the fleet.

9999/Undersea Launched Missile Studies (ULMS)

FY 2007

FY 2008

FY 2009

RDT&E Articles Quantity

0.000

4.967

0.000

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