CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**			R-1 ITEM NOMENCLATURE **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**				
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Total PE Cost	25.611	24.781	28.135				
0408 / Ship Development (Adv)	3.432	4.537	1.463				
3127 / Sea Base to Shore Connectors (Concept Stud)	12.792	0.000	0.000				
3195 / JCC(X)	1.954	10.032	25.190				
3226 / Green Water Craft	0.000	0.000	1.482				
9993A / Support For Naval Ship Hydrodynamic Test Facilities	4.820	3.989	0.000				
9D39A / Bow Lifting Body Ship Research	0.000	6.223	0.000				
9B83A / Common Composite Island Concept	2.613	0.000	0.000				

A. MISSION DESCRIPTION:

0408 SURFTECH - Ship Development project supports the evaluation of advanced and alternative technologies through the Surface Ship Technology (SURFTECH) process for suitability for meeting total ship concepts capability needs.

3127 - Sea Base to Shore Connectors (Concept Studies) is intended to provide the functional replacement for the Landing Craft Air Cushion (LCAC) whose SLEP extended service life ends beginning in 2014. It will provide the surface assault portion of the Joint Expeditionary Maneuver Warfare tactical solution set requirement.

3195 - JCC(X) is a mobile, self-sustaining platform (that may be based on the LPD 17 hull form) with robust C4ISR capability for a Joint Force Commander and staff and provides in-theater command and control should a land-based headquarters be unavailable, constrained or threatened. RDT&E profile supports necessary preliminary efforts in order to award detail design and procurement contract.

3226 - Green Water Craft which will provide maritime security and stability operations and increased maritime domain awareness in compliance with Global Maritime Security

9993A - Support for Naval Ship Hydrodynamic Test Facilities replaces the wavemakers in the MASK basin with modern systems capable of supporting Navy needs.

9D39A - Bow Lifting Body Ship Research project will develop and transition lifting body technologies to support future acquisition programs that consider single hull configurations.

9B83A - Common Composite Island Testing is funded to conduct a study to identify opportunities for composites on an LHA island, assess opportunities for commonality between LHA and CVN islands, and develop a suitable composite material system for use on both platforms.

objectives and in direct support of Global Fleet Stations (GFS). Funding will provide for craft feasibility and sizing study and subsystem Mockups in support of initial craft production.

9993N Support for Naval Ship Hydrodynamic Test Facility, Bow Lifting Body Ship Research and the Common Composite Island Concept are Congressional Adds

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2008	FY 2009	FY 2010
FY09 President's Budget	25.987	14.627	26.717
FY10 President's Budget	25.611	24.781	28.135
Total Adjustments	-0.376	10.154	1.418
(U) Summary of Adjustments			
Congressional Rescissions	0.000	0.000	0.000
Congressional Adjustments	0.000	10.173	0.000
SBIR/STTR/FTT Assessment	-0.372	0.000	0.000
Program Adjustments	-0.004	0.000	1.412
Rate/Misc Adjustments	0	-0.019	0.006
Total	-0.376	10.154	1.418

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**				PROJECT NUMBER AND NAME **0408/Ship Development (Adv)**		
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Project Cost	3.432	4.537	1.463				
RDT&E Articles Qty	0	0	0				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project unit supports two efforts.

SURFTECH - The evaluation of advanced and alternative technologies through the Surface Ship Technology (SURFTECH) process for suitability for meeting total ship concepts capability needs. The objective of this project is to provide the decision makers with feasible, affordable alternatives to be selected for further development.
In support of surface ship advanced technology development and transformation, the surface ship community has instituted a technology evaluation process to coordinate, identify, prioritize, and integrate technology insertion and development efforts and assist RDT&E community efforts to initiate appropriate technology development. The current acquisition guidelines require the development of critical technologies after Milestone A. If significant gap analysis, planning, and early development efforts are not conducted in parallel with Concept Development the Navy will not be able to provide broad, cross-platform direction to surface navy development efforts in an effective manner and will not effectively leverage limited resources to quicken the pace of both development and transition of critical mission technologies for timely acquisition.

AGOR OCEAN - Funding supports the acquisition of general purpose research vessels which will conduct science, educational and engineering operations in all oceans, and will be operated by the University Oceanographic Laboratory System (UNOLS).

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **0408/Ship Development (Adv)**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010
Ocean Class AGOR	2.993	3.989	0.971
RDT&E Articles Quantity	0	0	0

OCEAN Class AGOR:

RDT&E profile supports necessary preliminary efforts in order to award detail design and procurement contract.

	FY 2008	FY 2009	FY 2010
SURFTECH	0.439	0.548	0.492
RDT&E Articles Quantity	0	0	0

SURFTECH:

As new ship concepts with desired mission capabilities are developed, SURFTECH will continuously identify, prioritize, and integrate technology insertion and development efforts and assist the RDT&E community efforts to initiate appropriate technology development. SURFTECH will provide continuous analysis of and feedback to ongoing technology development efforts to ensure project relevance and timely transition to meet acquisition schedules, which will be documented in the Technology Plan.

C. OTHER PROGRAM FUNDING SUMMARY:

D. ACQUISITION STRATEGY:

OCEAN Class AGOR:

Phased acquisition strategy to support procurement of ocean research vessels. Firm Fixed price (FFP) type contract will be awarded.

E. MAJOR PERFORMERS:

Ocean Class AGOR:

Field Activities & Locations - Work Performed:

NSWC, Carderock, MD - Concept development and engineering support

NAVO Stennis Space Center, MS - Concept development and engineering support

Contractors & Locations - Work Performed:

Computer Sciences Corporation, Washington, DC - Engineering Support

ALION-JJMA, Washington, DC - Program Support

Universities & Locations - Work Performed: N/A

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**		PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**					PROJECT NUMBER AND NAME **0408/SHIP DEVELOPMENT (ADV)**					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost ($000)			FY 2009 Cost ($000)	FY 2009 Award Date	FY 2010 Cost ($000)	FY 2010 Award Date		Total Cost ($000)	Target Value of Contract
Contract/Functional Design (Ocean Class AGOR)	FFP	TBD	0.000			3.000	AUG-09	0.000			3.000	0.000
Subtotal Product Development			**0.000**			**3.000**		**0.000**			**3.000**	**0.000**
Remarks:												
Integrated Logistics (SURFTECH)	Various	Various	0.196			0.100	JAN-09	0.100	JAN-10		0.496	0.000
Configuration Mngt (SURFTECH)	Various	Various	0.709			0.389	JAN-09	0.400	JAN-10		1.817	0.000
Subtotal Support Costs			**0.905**			**0.489**		**0.500**			**2.313**	**0.000**
Remarks:												
Subtotal Test and Evaluation			**0.000**			**0.000**		**0.000**			**0.000**	**0.000**
Remarks:												
Contractor Engineering Support (Ocean Class AGOR)	MAC	CSC	1.195			0.350	MAR-09	0.300	JAN-10		1.845	0.000
Government Engineering Support (Ocean Class AGOR)	WX	Various	0.180			0.075	MAR-09	0.150	JAN-10		0.405	0.000
Program Management Support (Ocean Class AGOR)	MAC	Alion/JJMA	1.570			0.532	MAR-09	0.410	JAN-10		2.512	0.000
Travel (Ocean Class AGOR)	PD	NAVSEA	0.048			0.032	MAR-09	0.040	JAN-10		0.168	0.000
Program Management (SUFFTECH)	Various	Various	0.076			0.059	MAR-09	0.063	JAN-10		0.218	0.000
Subtotal Management Services			**3.069**			**1.048**		**0.963**			**5.148**	**0.000**
Remarks:												
Total Cost			**3.974**			**4.537**		**1.463**			**10.461**	**0.000**

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-4, SCHEDULE PROFILE		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **0408/SHIP DEVELOPMENT (ADV)**

Fiscal Year	2008				2009				2010			
	1	2	3	4	1	2	3	4	1	2	3	4
SURFTECH												
Concept/Tech Development Analysis		Ongoing Concept/Tech Development Analysis										
Technology Plan Updates		△				△				△		
OCEAN CLASS AGOR												
Acquistion Milestones												
Phase I RFP Release							△					
Phase I Award								△				

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**			PROJECT NUMBER AND NAME **0408/SHIP DEVELOPMENT (ADV)**			
Schedule Profile	FY 2008	FY 2009	FY 2010				
Ocean Class AGOR - Phase I RFP Release		3Q					
Ocean Class AGOR - Phase I Award		4Q					
SURFTECH Concept /Tech Development Analysis	1Q-4Q	1Q-4Q	1Q-4Q				
SURFTECH Technology Plan Updates	2Q	2Q	2Q				

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**				PROJECT NUMBER AND NAME **3127/Sea Base to Shore Connectors (Cncpt Stud)**		
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Project Cost	12.792	0.000	0.000				
RDT&E Articles Qty	0	0	0				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Provide a 30 year craft for the 2015 and beyond time frame, a high speed, over the beach, ship-to-shore amphibious capability to lift all equipment organic to the ground elements of a Marine Air/Ground Task Force and provide other assault and non-assault (humanitarian, etc.) operations from the sea. Provides the functional replacement for Landing Craft Air Cushion whose SLEP extended service life ends beginning in 2014. Future funding for later phases of the Seabase to Shore Connector Program is included in PE 0604567, Project Unit 3133.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **3127/Sea Base to Shore Connectors (Cncpt Stud)**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010
Accomplishments/Effort/Subtotal Cost	12.792	0.000	0.000
RDT&E Articles Quantity	0	0	0

Prepared for and participated in Milestone A Review in FY08. Start preparation of Capability Development Document (CDD) in FY 08 to complete in FY10. The CDD outlines an affordable increment of militarily useful, logistically supportable and technically mature capability. Preliminary Design efforts began in FY08 and are scheduled to complete in FY09 followed by a Milestone (MS) A Defense Acquisition Board Review.

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2008	FY 2009	FY 2010					To Complete	Total Cost
SCN 0204411N Surface Connector (55112)	0.000	0.000	0.000					0.000	0.000
RDT&EN 0604567 Sea Base Connector (3133)	14.199	26.154	36.054					0.000	76.407

D. ACQUISITION STRATEGY:

The lead craft will be procured and constructed with RDT&E funds with follow crafts procured and constructed with SCN funds. The lead craft Detail Design contract will include an option for construction.

E. MAJOR PERFORMERS:

Field Activities & Locations - Work Performed
NSWC Carderock Division, Philadelphia, PA - Systems Engineering for Propulsion Systems
NSWC Panama City Division, Panama City, FL - Systems Engineering for Hull, Mechanical & Electrical
NUWC Keyport, Keyport, FL - Systems Engineering for Command and Control

Contractors & Locations - Work Performed
Textron Marine & Land Systems, New Orleans, LA - SSC Concept Study & Skirt Technology
Rolls-Royce, Walpole, MA - Marine Gas Turbine
Goodrich, Jacksonville, FL - Composite Fan propulsor Assembly
NG Electric Systems, Sunnyvale, CA - Integrated Power Systems and Mechanical Drive Options
Umoe Mandal, Virginia Beach, VA - Concept Study & Fiber Reinforced Plastic
Alion Science and Tech, Chicago, IL - Hybrid ACV Propulsion

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **3127/Sea Base to Shore Connectors (Cncpt Stud)**

Technology Systems Inc., Brunswick, MA - Augmented Reality Visualization

Universities & Locations - Work Performed

Penn State ARL, State College, PA - Maintenance Network

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**				PROJECT NUMBER AND NAME **3195/JCC(X)**		
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Project Cost	1.954	10.032	25.190				
RDT&E Articles Qty	0	0	0				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(3195) JCC(X) is a mobile, self-sustaining platform (that may be based on the LPD 17 hull form) with robust C4ISR capability for a Joint Force Commander and staff and provides in-theater command and control should a land-based headquarters be unavailable, constrained or threatened.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **3195/JCC(X)**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010
Accomplishments/Effort/Subtotal Cost	1.954	10.032	25.190
RDT&E Articles Quantity	0	0	0

Funds JCC(X) requirements documentation and other JCC(X) preliminary design and feasibility study efforts necessary to obtain a Program Decision to proceed with start of functional designs in FY 2009.

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2008	FY 2009	FY 2010					To Complete	Total Cost
BLI: 5521500 (JCC(X) SCN)	0.00	0.00	0.00						0.000

D. ACQUISITION STRATEGY:

E. MAJOR PERFORMERS:

CLASSIFICATION:	UNCLASSIFIED									
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**		PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**					PROJECT NUMBER AND NAME **3195/JCC(X)**			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost ($000)	FY 2009 Cost ($000)	FY 2009 Award Date	FY 2010 Cost ($000)	FY 2010 Award Date	Cost to Complete ($000)	Total Cost ($000)	Target Value of Contract
Prelim Design & Feasibility Studies	VARIOUS	VARIOUS	1.954	10.032		25.190		0.000	35.222	0.000
Subtotal Product Development			**1.954**	**10.032**		**25.190**		**0**	**35.222**	**0.000**
Remarks:										
Subtotal Support Costs			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**	**0.000**
Remarks:										
Subtotal Test and Evaluation			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**	**0.000**
Remarks:										
Subtotal Management Services			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**	**0.000**
Remarks:										
			0.000	0.000		0.000		0.000	0.000	0.000
Subtotal Ship Preliminary Design & Feasibility Studies to achieve JCC(X) Acquisition			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**	**0.000**
Remarks:										
Total Cost			**1.954**	**10.032**		**25.190**		**0**	**35.222**	**0.000**

EXHIBIT R4, Schedule Profile																	Date: May 2009											
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME											
RDTEN/BA-4					**PE 0603564N/SHIP PRELIM DESIGN & FEASIBILITY STUDIES**												**3195 JCC(X)**											
Fiscal Year	2008				2009				2010																			
	1	2	3	4	1	2	3	4	1	2	3	4																
JCC(X) Ship Preliminary Design & Feasibility Studies to achieve JCC(X) Acquisition Milestones																												
Concept Decision				△																								
MS A								△																				

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**			PROJECT NUMBER AND NAME **3195/JCC(X)**			
Schedule Profile	FY 2008	FY 2009	FY 2010				
Concept Decision	4Q						
MS A		4Q					

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**				PROJECT NUMBER AND NAME **3226/Green Water Craft**		
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Project Cost	0.000	0.000	1.482				
RDT&E Articles Qty	0	0	0				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Green Water Craft which will provide maritime security and stability operations and increased maritime domain awareness in compliance with Global Maritime Security objectives and in direct support of Global Fleet Stations (GFS). Funding will provide for craft feasibility and sizing study and subsystem Mockups in support of initial craft production.

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION		DATE May 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **3226/Green Water Craft**

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010
Accomplishments/Effort/Subtotal Cost	0.000	0.000	1.482
RDT&E Articles Quantity	0	0	0

In support of initial craft production, Government and contractor engineering support will conduct craft feasibility and sizing studies to be used to develop Command and Control System and Pilot House Static Mockups.

C. OTHER PROGRAM FUNDING SUMMARY:
Not applicable

D. ACQUISITION STRATEGY:
Not applicable

E. MAJOR PERFORMERS:
Not applicable

CLASSIFICATION:	UNCLASSIFIED											
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**		PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**					PROJECT NUMBER AND NAME **3226/Green Water Craft**					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost ($000)	FY 2009 Cost ($000)	FY 2009 Award Date	FY 2010 Cost ($000)	FY 2010 Award Date	Total Cost ($000)	Target Value of Contract			
Craft Sizing Study	FPP	TBD	0.000	0.000		0.300	NOV-09	0.300	0.000			
Command and Control Mockup Design and Prototype Development	FPP	TBD	0.000	0.000		0.850	NOV-09	0.850	0.000			
Pilot House Static Mockup	FPP	TBD	0.000	0.000		0.000		0.000	0.000			
Subtotal Product Development			**0.000**	**0.000**		**1.150**		**1.150**	**0.000**			
Remarks:												
Subtotal Support Costs			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**			
Remarks:												
Subtotal Test and Evaluation			**0.000**	**0.000**		**0.000**		**0.000**	**0.000**			
Remarks:												
Contractor Engineering Support (Green Water)	MAC	CSC	0.000	0.000		0.070	NOV-09	0.070	0.000			
Government Engineering Support (Green Water)	WX	NSWCCD CCD	0.000	0.000		0.222	NOV-09	0.222	0.000			
Travel (Green Water)	PD	NAVSEA	0.000	0.000		0.040	DEC-09	0.040	0.000			
Subtotal Management Services			**0.000**	**0.000**		**0.332**		**0.332**	**0.000**			
Remarks:												
Total Cost			**0.000**	**0.000**		**1.482**		**1.482**	**0.000**			

CLASSIFICATION:	UNCLASSIFIED	
EXHIBIT R-4, SCHEDULE PROFILE		DATE May 2009
APPROPRIATION/BUDGET A **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN&FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **3226/Green Water Craft**

Fiscal Year	2008				2009				2010			
	1	2	3	4	1	2	3	4	1	2	3	4
Green Water Craft Sizing Study Award									△			
Command and Control Mockup Award									△			
Green Water Craft Sizing Study Delivery											△	

CLASSIFICATION:	UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA 4**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES**			PROJECT NUMBER AND NAME **3226/Green Water Craft**			
Schedule Profile	FY 2008	FY 2009	FY 2010				
Green Water Craft Sizing Study Award			1Q				
Command and Control Mockup Award			1Q				
Green Water Craft Sizing Study Report			3Q				

CLASSIFICATION:	UNCLASSIFIED		
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE MAY 2009
APPROPRIATION/BUDGET ACTIVITY **RDTEN/BA**	PROGRAM ELEMENT NUMBER AND NAME **0603564N/SHIP PRELIM. DESIGN & FEASIBILITY STUDIES**	PROJECT NUMBER AND NAME **9999/CONGRESSIONAL ADDS**	

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010	
9993A/Support For Naval Ship Hydrodynamic Test Facilities	4.820	3.989	0.000	
RDT&E Articles Quantity	0	0	0	

(U) This funding supports the Naval Ship Hydrodynamics Test Facilities.

	FY 2008	FY 2009	FY 2010	
9D39A Bow Lifting Body Ship Research	0.000	6.223	0.000	
RDT&E Articles Quantity	0	0	0	

(U) The Bow Lifting Body project will develop and transition lifting body technologies to support future acquisition programs that consider single hull configurations. Lifting body technology permits ships and water borne craft to elevate relative to the stationary buoyant condition of the ship. The elevation permits ships and craft outfitted with lifting body technology to reduce contact the sea surface reducing ship resistance and permitting greater operability in certain wind and wave conditions relative to ships and craft of similar size not outfitted with lifting body technology.

	FY 2008	FY 2009	FY 2010	
9B83A Common Composite Island Testing	2.613	0.000	0.000	
RDT&E Articles Quantity	0	0	0	

(U)This project is funded to conduct a study to identify opportunities for composites on an LHA island, assess opportunities for commonality between LHA and CVN islands, and develop a suitable composite material system for use on both platforms.