

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							February 2006	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE			
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7					PE 0204413N/Amphibious Tactical Support Units			
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost		3.580	4.696	1.812	1.840	2.293	2.294	2.325
1980 AMPHIB OTHER C2		0.158	2.706	0.000	0.000	0.000	0.000	0.000
2231 Technology Transfer		0.000	1.990	1.812	1.840	2.293	2.294	2.325
2909 AMPHIBIOUS LIGHTERAGE DEVELOP		3.422	0.000	0.000	0.000	0.000	0.000	0.000
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> This Program Element supports multiple amphibious warfare development and technology insertion efforts.</p> <p><b>B. PROJECT UNIT EFFORTS are as follows:</b></p> <p><b>AMPHIB OTHER C2 (1980)</b> - SACC-A automates the Supporting Arms Coordination Center (SACC) aboard LHA 1, LHD 1 and LHD 5 ship classes, providing an integrated, automated capability to conduct Amphibious Task Force (ATF) Marine Expeditionary Brigade (MEB) level fire support planning, coordination, deconfliction, and execution of fires utilizing all supporting arms including naval surface fires, air assets, artillery, mines and mortars.</p> <p><b>AADS (1980)</b> - This project also contains FY06 funding for the Amphibious Assault Direction System (AADS, AN/KSQ-1), which provides AADS the ability to investigate future Navy C4ISR technical direction, explore technological advances, and analyze interoperability issues in order to develop the requisite technical upgrades.</p> <p><b>TECHNOLOGY TRANSFER (2231)</b> - This provides for research efforts on LCAC Future Naval Capabilities (FNC): Current S&amp;T initiatives include the ONR Expeditionary Logistics (EXLOG), LCAC Cargo Gripping Lashings System (STTR), Self Contained Rudder Actuator System (STTR), Advanced structural design for LCAC ramps (SBIR), Personal Transport Module (SBIR), Enhanced Skirt Finger Material (FCT), the Lube Oil Cooler (FCT) and the Composit Shroud (FCT).</p> <p><b>AMPHIBIOUS LIGHTERAGE DEVELOPMENT (2909)</b> - This project supports development and procurement of technology to develop Navy causeway lighterage. The Improved Navy Lighterage System (INLS) replaces the existing Navy Lighterage (NL) system and supports the US Navy Lighterage recapitalization plan. Current NL will reach the end of its service life and will impact crew safety and operational readiness. INLS will be able to operate in higher sea states and have a longer service life with reduced maintenance costs. INLS will be deployed during Logistic Over The Shore (LOTS) operations, Assault Follow On Echelon (AFOE) operations and Maritime Prepositioning Force (MPF) operations. INLS consists of Warping Tugs, Causeway Ferries, RO/RO Discharge Facilities and Floating Causeway. The design and development for INLS was completed in FY04. Contract for Low Rate Initial Production (LRIP) was awarded in Aug 03. OPEVAL DT/OT took place 4th quarter FY05. In addition, INLS Phase III design process continues with the High Speed Ferry Assault Connector (CFFX) in support of the Seabasing concept.</p>								

R-1 SHOPPING LIST - Item No.

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Exhibit R-2a, RDTEN Project Justification  
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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: <b>February 2006</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0204413N/Amphibious Tactical Support Units</b>			PROJECT NUMBER AND NAME <b>1980 AMPHIB OTHER C2</b>		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	<b>0.158</b>	<b>2.706</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
RDT&E Articles Qty							

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

#### AMPHIB OTHER C2 includes:

**SACC-A:** The FY05-FY06 Supporting Arms Coordination Center - Automation (SACC-A) program automates the SACC aboard LHA & LHD class ships. Currently the process is manual and voice accomplished, unresponsive to the needs of Marine Forces ashore. Specifically, SACC-A is developing a Ship to Objective Maneuver (STOM) Fire's Command & Control cell for the Amphibious Large Deck ships. SACC-A provides an integrated, auto capability to conduct Marine Expeditionary Brigade level fire support planning, coordination, and execution of all supporting arms fires, including Naval Surface Fires, Tactical Air and Artillery & Mortars ashore. SACC-A integrates other Command & Control systems aboard the ship and ashore to provide maximum situational awareness and a common operating picture.

**AADS:** The FY06 Amphibious Assault Direction System (AADS, AN/KSQ-1) program researches Network Centric Warfare requirements for Amphibious Assault Command and Control, identifies the projected technological advances and requirements of Fleet systems, and identifies the Next Generation AADS operational requirements and capabilities. Technology integration with Expeditionary Strike Group ships is also included.

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R-1 SHOPPING LIST - Item No.

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Exhibit R-2a, RDTEEN Project Justification  
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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2006</b>																																																				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0204413N/Amphibious Tactical Support Units</b>			PROJECT NUMBER AND NAME <b>1980 AMPHIB OTHER C2</b>																																																						
<p><b>D. OTHER PROGRAM FUNDING SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Line Item No. &amp; Name</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2005</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2006</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2007</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2008</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2009</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2010</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2011</th> <th style="text-align: center; border-bottom: 1px solid black;">To Complete</th> <th style="text-align: center; border-bottom: 1px solid black;">Total Cost</th> </tr> </thead> <tbody> <tr> <td colspan="10" style="padding-top: 10px;"><b>SACC-A</b></td> </tr> <tr> <td>OPN Line 098100 Items Under \$5M</td> <td style="text-align: center;">0.860</td> <td style="text-align: center;">0.645</td> <td style="text-align: center;">0.726</td> <td style="text-align: center;">0.783</td> <td style="text-align: center;">0.817</td> <td style="text-align: center;">0.795</td> <td style="text-align: center;">0.816</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5.442</td> </tr> <tr> <td colspan="10" style="padding-top: 10px;"><b>AADS</b></td> </tr> <tr> <td>OPN Line 5239 SSDS</td> <td style="text-align: center;">0</td> <td style="text-align: center;">11.554</td> <td style="text-align: center;">10.585</td> <td style="text-align: center;">6.746</td> <td style="text-align: center;">5.829</td> <td style="text-align: center;">1.739</td> <td style="text-align: center;">0.016</td> <td style="text-align: center;">0</td> <td style="text-align: center;">36.469</td> </tr> </tbody> </table> <p style="margin-top: 20px;"><b>SACC-A:</b> The procurement items for SACC-A include Advanced Field Artillery Tactical Data System (AFATDS), Effect Management Tool (EMT), jam boxes, Automated Distribution Network Systems (ADNS), racks, workstations, Large Screen Color Displays (LSCDs), PICT phones, new Theater Tables, communications devices which will be permanent changeouts to the amphibious ships. These need to be in place in order to permit the connection of the automated SACC capabilities. The operations and maintenance efforts are for program, engineering, and technical support, logistics support and technical assists.</p> <p><b>AADS:</b> The procurement items for AADS are related to two subsystems: EPLRS and the ship dependent AN/KSQ-1 hardware configurations. Examples of specific items include RT-1720(c) Enhanced PLRS User Unit (EPUU) digital radios, EPLRS Net Control Station (NCS) workstations and other EPLRS equipment.</p> <p><b>E. ACQUISITION STRATEGY:</b></p> <p>The SACC-A effort will develop and field a Naval Fire Control System (NFCS) that satisfies the requirements of naval and supported forces. The NFCS is to be an ACAT III program under Navy management. The AADS strategy is to develop a software interface to ensure integrated communications and joint operations for joint forces.</p> <p><b>F. MAJOR PERFORMERS:</b></p> <p>Field Activities &amp; Locations - Work Performed:</p> <ul style="list-style-type: none"> <li>NSWC DD, Dahlgren, VA - Hardware Development, Systems Engineering, Training, ILS, T&amp;E</li> <li>NSWC CSS, Panama City, FL - Hardware Development, System Engineering</li> <li>SPAWAR-SD - Hardware Development, System Engineering</li> <li>ARMY - Hardware Development</li> </ul> <p>Contractors &amp; Locations - Work Performed:</p> <ul style="list-style-type: none"> <li>TBD - Software Development</li> </ul> <p>Universities &amp; Locations - Work Performed:</p>										Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost	<b>SACC-A</b>										OPN Line 098100 Items Under \$5M	0.860	0.645	0.726	0.783	0.817	0.795	0.816	0	5.442	<b>AADS</b>										OPN Line 5239 SSDS	0	11.554	10.585	6.746	5.829	1.739	0.016	0	36.469
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost																																																		
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Exhibit R-3 Cost Analysis (page 1)							DATE: February 2006					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N / BA-7			0204413N/Amphibious Tactical Support Unit		1980 / AMPHIB OTHER C2							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development	WX	SPAWAR	0.755			0.025	03/06					
Aircraft Integration												
Ship Integration	WX	NSWC DD	3.000	0.011		0.205	02/06					
Ship Suitability												
Systems Engineering	WX	NSWC CSS, APL	0.600			0.265	12/05					
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development			4.355	0.011		0.495		0.000		0.000	4.861	
Remarks:												
Development Support												
Software Development	WX	CSS		0.147	12/04	2.211	12/05		12/06		2.358	
Integrated Logistics Support												
Configuration Management												
Technical Data												
Studies & Analyses												
GFE												
Award Fees												
Subtotal Support			0.000	0.147		2.211		0.000		0.000	2.358	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0204413N/Amphibious Tactical Support Un			1980 AMPHIB OTHER C2						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Award Fees												
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Travel												
Transportation												
SBIR Assessment												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost			4.355	0.158		2.706		0.000		0.000	7.219	
Remarks:												

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EXHIBIT R4, Schedule Profile																				DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7					PROGRAM ELEMENT NUMBER AND NAME 0204413N/Amphibious Tactical Support Units												PROJECT NUMBER AND NAME 1980/AMPHIB OTHER C2											
Fiscal Year	2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software Development					△	—————			△																			
Systems Engineering					△	—————						△																

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Exhibit R-4a, Schedule Detail					DATE: <b>February 2006</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>				PROJECT NUMBER AND NAME <b>1980/AMPHIB OTHER C2</b>			
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Software Development		1Q - 4Q	1Q, 2Q				
Systems Engineering		1Q - 4Q	1Q - 4Q				

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COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	<b>0.000</b>	<b>1.990</b>	<b>1.812</b>	<b>1.840</b>	<b>2.293</b>	<b>2.294</b>	<b>2.325</b>
RDT&E Articles Qty							
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> TECHNOLOGY TRANSITION (2231) -</p> <p><u>FY06-FY11 TECHNOLOGY TRANSITION:</u> Provides for research efforts on LCAC Future Naval Capabilities (FNC): Current S&amp;T initiatives include the ONR Expeditionary Logistics (EXLOG), LCAC Cargo Gripping Lashings System (STTR), Self Contained Rudder Actuator System (STTR), Advanced structural design for LCAC ramps (SBIR), Personal Transport Module (SBIR), Enhanced Skirt Finger Material (FCT), the Lube Oil Cooler (FCT), and the Composite Shroud (FCT).</p>							

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(U) Technical: Not Applicable																																															

R-1 SHOPPING LIST - Item No.

175/10

UNCLASSIFIED

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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2006</b>																						
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT NUMBER AND NAME <b>0204413N/Amphibious Tactical Support Units</b>			PROJECT NUMBER AND NAME <b>2231 / TECHNOLOGY TRANSFER</b>																							
<p><b>D. OTHER PROGRAM FUNDING SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 35%;"><u>Line Item No. &amp; Name</u></th> <th style="text-align: center; width: 8%;"><u>FY 2005</u></th> <th style="text-align: center; width: 8%;"><u>FY 2006</u></th> <th style="text-align: center; width: 8%;"><u>FY 2007</u></th> <th style="text-align: center; width: 8%;"><u>FY 2008</u></th> <th style="text-align: center; width: 8%;"><u>FY 2009</u></th> <th style="text-align: center; width: 8%;"><u>FY 2010</u></th> <th style="text-align: center; width: 8%;"><u>FY 2011</u></th> <th style="text-align: center; width: 8%;"><u>To Complete</u></th> <th style="text-align: center; width: 8%;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td style="padding-top: 10px;">OPN Line 098100 LCAC HM&amp;E &lt; 5,000K</td> <td></td> <td style="text-align: center;">5.308</td> <td style="text-align: center;">5.914</td> <td style="text-align: center;">6.484</td> <td style="text-align: center;">6.514</td> <td style="text-align: center;">6.768</td> <td style="text-align: center;">6.993</td> <td></td> <td style="text-align: right;">37.981</td> </tr> </tbody> </table> <p style="margin-top: 20px;"><b>E. ACQUISITION STRATEGY:</b> TECHNOLOGY TRANSFER - RDT&amp;E efforts commence in FY06. Multiple contracts and Field Activities will be involved through FY11 to complete the various projects.</p> <p style="margin-top: 20px;"><b>F. MAJOR PERFORMERS:</b></p> <p style="margin-left: 20px;">Field Activities &amp; Locations - Work Performed:  NSWC, Bethesda, MD - System engineering, test and evaluation.  NSWC (CSS) Panama City, FL - System engineering  NSWC Philadelphia, PA - Systems engineering</p> <p style="margin-left: 20px;">Contractors &amp; Locations - Work Performed:  TBD</p> <p style="margin-left: 20px;">Universities &amp; Locations - Work Performed  Not applicable</p>										<u>Line Item No. &amp; Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>	OPN Line 098100 LCAC HM&E < 5,000K		5.308	5.914	6.484	6.514	6.768	6.993		37.981
<u>Line Item No. &amp; Name</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>																				
OPN Line 098100 LCAC HM&E < 5,000K		5.308	5.914	6.484	6.514	6.768	6.993		37.981																				

R-1 SHOPPING LIST - Item No. 175/11

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## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N / BA-7			0204413N/Amphibious Tactical Support Units		2231 / TECHNOLOGY TRANSFER							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development												
Component Development	WX/CPAF	Various				0.150	02/05	0.150	01/07	0.600	0.900	
Ship Design												
Ship Suitability												
Systems Engineering	FFP/CPF	Various	2.841			0.550	02/05	0.779	01/07	3.600	7.770	
Training Development												
Licenses												
Tooling												
GFE	WX		0.110								0.110	
Award Fees												
Subtotal Product Development			2.951	0.000		0.700		0.929		4.200	8.780	
Remarks:												
Development Support	WX	Various	2.467			0.685	10/05	0.290	10/06	2.112	5.554	
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
Studies & Analyses	WX	ONR	0.254								0.254	
GFE												
Award Fees												
Subtotal Support			2.721	0.000		0.685		0.290		2.112	5.808	
Remarks:												

R-1 SHOPPING LIST - Item No. 175/12

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Exhibit R-2a, RD TEN Project Justification  
(page 12 of 21)

# UNCLASSIFIED

## CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N / BA-7			0204413N/Amphibious Tactical Support Un		2231 / TECHNOLOGY TRANSFER							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	Various	0.290			0.100	10/05	0.098	10/06	0.400	0.888	
Operational Test & Evaluation	WX	Various	0.029			0.050	10/05	0.050	10/06	0.200	0.329	
Live Fire Test & Evaluation												
Test Assets						0.100	10/05	0.100	10/06	0.400	0.600	
Tooling												
GFE												
Award Fees												
Subtotal T&E			0.319	0.000		0.250		0.248		1.000	1.817	
Remarks:												
Contractor Engineering Support	FFP	VARIOUS	1.195			0.200	10/05	0.194	10/06	0.820	2.409	
Government Engineering Support	WX	VARIOUS	0.812								0.812	
Program Management Support	CPFF	VARIOUS	0.457			0.100	10/05	0.096	10/06	0.400	1.053	
Travel	PD	NAVSEA TRAVEL	0.067			0.055	10/05	0.055	10/06	0.220	0.397	
Labor (Research Personnel)												
SBIR Assessment												
Subtotal Management			2.531	0.000		0.355		0.345		1.440	4.671	
Remarks:												
Total Cost			8.522	0.000		1.990		1.812		8.752	21.076	
Remarks:												

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile																				DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7					PROGRAM ELEMENT NUMBER AND NAME 0204413N/Amphibious Tactical Support Units										PROJECT NUMBER AND NAME 2231 / TECHNOLOGY TRANSFER													
Fiscal Year	2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones	MS B																											
Contract Award	△																											
LCAC S&T Initiatives					△																							△

R-1 SHOPPING LIST - Item No. 175/14

UNCLASSIFIED

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: <b>February 2006</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT <b>0204413N/Amphibious Tactical Support Units</b>				PROJECT NUMBER AND NAME <b>2231 / TECHNOLOGY TRANSFER</b>		
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone B							
Contract Award	1Q						
LCAC S&T Initiatives		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q

R-1 SHOPPING LIST - Item No. 175/15

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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2006</b>																			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N/BA7</b>		PROGRAM ELEMENT NAME AND NUMBER <b>0204413N/Amphibious Tactical Support Units</b>			PROJECT NAME AND NUMBER Amphibious Lighterage Development/2909																					
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Total Cost																
Project Cost		3.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.422																
RDT&E Articles Qty		30	N/A	N/A	N/A	N/A	N/A	N/A																		
<p><b>A. Mission Description and Budget Item Justification:</b>            This project supports development and procurement of technology to develop Navy causeway lighterage. The Improved Navy Lighterage System (INLS) replaces the existing Navy Lighterage (NL) system and supports the US Navy Lighterage recapitalization plan. Current NL will reach the end of its service life and will impact crew safety and operation readiness. INLS will be capable of operations in higher sea states, have a greater service life, and have reduced maintenance costs. INLS will be deployed during Logistic Over The Shore (LOTS) operations, Assault Follow On Echelon (AFOE) operations and Maritime Prepositioning Force (MPF) operations. INLS consists of Warping Tugs, Causeway Ferries, RO/RO Discharge Facilities and Floating Causeway. The design and development for INLS was completed in FY04. Contract for Low Rate Initial Production (LRIP) was awarded in Aug 03. OPEVAL DT/OT took place 4th quarter in FY05. In addition, INLS Phase III design process continues with the High Speed Ferry Assault Connector (CFFX) in support of the Seabasing concept.</p> <p><b>B. ACCOMPLISHMENTS/PLANNED PROGRAM:</b>            FY2005: \$2.442M for INLS OPEVAL and \$1.0M for CFFX</p> <table border="1" style="margin: 20px auto; width: 30%; border-collapse: collapse;"> <tr> <td></td> <td>FY2005</td> <td>FY2006</td> <td>FY2007</td> </tr> <tr> <td>INLS OPEVAL</td> <td>2.422</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>CFFX</td> <td>1.000</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td>30</td> <td>N/A</td> <td>N/A</td> </tr> </table> <p>Operation and evaluation testing began in FY2005.            CFFX Technology development in FY2005, contract awarded April 05.</p>												FY2005	FY2006	FY2007	INLS OPEVAL	2.422	0.000	0.000	CFFX	1.000	0.000	0.000	RDT&E Articles Qty	30	N/A	N/A
	FY2005	FY2006	FY2007																							
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CFFX	1.000	0.000	0.000																							
RDT&E Articles Qty	30	N/A	N/A																							

R-1 SHOPPING LIST - Item No. 175-16

UNCLASSIFIED



# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2006</b>																																																																																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E,N/BA7</b>		PROGRAM ELEMENT NAME AND NUMBER <b>0204413N/Amphibious Tactical Support</b>			PROJECT NAME AND NUMBER Amphibious Lighterage Development/2909																																																																																	
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R-1 SHOPPING LIST - Item No. 175-17

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Exhibit R-2a, RD TEN Project Justification  
(page 17 of 21)

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CLASSIFICATION:

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Exhibit R-3 Cost Analysis (page 1)						DATE: February 2006						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E,N/BA7			0204413N/Amphibious Tactical Support Units			Amphibious Lighterage Development/2909						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										0.000	0.000	
Ancillary Hardware Development										0.000	0.000	
Systems Engineering	RCP	AAA - CA		1.000	04/05					0.000	1.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	1.000		0.000		0.000		0.000	1.000	
Remarks:												
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support										0.000	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:												

R-1 SHOPPING LIST - Item No. 175-18

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)				DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT		PROJECT NAME AND NUMBER								
RDT&E,N		0204413N/Amphibious Tactical Support Units		Amphibious Lighterage Development/2909								
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY's Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NFESC		0.350	04/05					0.000	0.350	
Developmental Test & Evaluation	MIPR	USMC		0.100	06/05						0.100	
Operational Test & Evaluation	WR	OPTEVFOR	0.050	1.802	12/05	\$0.000		0.000		0.000	1.852	
Operational Test & Evaluation	RCP	Titan		0.170	03/05						0.170	
Tooling											0.000	
GFE											0.000	
Subtotal T&E			0.050	2.422		0.000		0.000		0.000	2.472	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost			0.050	3.422		0.000		0.000		0.000	3.472	
Remarks:												

R-1 SHOPPING LIST - Item No. 175-19

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification  
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# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R4, Schedule Profile																				DATE: February 2006									
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME												
RDT&E, N / BA-7					0204413N/Amphibious Tactical Support Units												Amphibious Lighterage Development/2909												
Fiscal Year	2005				2006				2007				2008				2009				2010				2011				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
INLS Acquisition Milestones					IOC ★	FRP ▲																							
Test & Evaluation Milestones																													
Operational Test					OPEVAL ▬																								
Production Milestones																													
LRIP AUG 2003																													
FRP FY 09						FRP Start ▲																FOC △							
Deliveries	LRIP Deliveries																												

R-4 Schedule Profile - Item No. 175-20

UNCLASSIFIED

**UNCLASSIFIED**

**CLASSIFICATION:**

[illegible]

R-4a Schedule Detail - Item No 175-21

**UNCLASSIFIED**

**Exhibit R-2a, RD TEN Project Justification**  
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