

CLASSIFICATION:		UNCLASSIFIED		
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION				DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		R-1 ITEM NOMENCLATURE 0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS		
COST (In Millions)		FY 2008	FY 2009	FY 2010
Total PE Cost		1.789	2.316	2.324
2231 / LCU Replacement and DMFD		1.789	2.316	2.324
A. MISSION DESCRIPTION:				
TECHNOLOGY TRANSITION: Provides for research efforts on LCAC Future Naval Capabilities (FNC) to transfer technologies to functional uses on current LCACs. Current S&T initiatives include the following: sustainability/readiness/performance analysis; enhanced LCAC-M cost model; friction stir welding equipment evaluation; LCAC communications improvements; analysis of electrical systems during cold weather operations; LCAC model hydrodynamic testing; LCAC structural loads analysis; development and qualification of full authority digital engine controller for LCAC engines, and vibration reduction analysis.				
B. PROGRAM CHANGE SUMMARY:				
Funding:		FY 2008	FY 2009	FY 2010
FY09 President's Budget		1.805	2.325	2.357
FY10 President's Budget		1.789	2.316	2.324
Total Adjustments		-0.016	-0.009	-0.033
(U) Summary of Adjustments				
Congressional Rescissions		0.000	0.000	0.000
Congressional Adjustments		0.000	-0.006	0.000
SBIR/STTR/FTT Assessment		-0.014	0.000	0.000
Program Adjustments		0.000	0.000	0.000
Rate/Misc Adjustments		-0.002	-0.003	-0.033
Total		-0.016	-0.009	-0.033

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DATE

May 2009

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

RDTEN/BA 7**0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS****C. OTHER PROGRAM FUNDING SUMMARY:**

TECHNOLOGY TRANSITION: Provides for research efforts on LCAC Future Naval Capabilities (FNC) to transfer technologies to functional uses on current LCACs. Current S&T initiatives include the following: sustainability/readiness/performance analysis; enhanced LCAC-M cost model; friction stir welding equipment evaluation; LCAC communications improvements; analysis of electrical systems during cold weather operations; LCAC model hydrodynamic testing; LCAC structural loads analysis; development and qualification of full authority digital engine controller for LCAC engines, and vibration reduction analysis.

Line Item No. and Name	FY 2008	FY 2009	FY 2010
OPN Line 0970 Amphibious Tactical Support Units	0.065	0.173	6.642
SCN Line 5139 LCAC SLEP	97.830	110.587	63.857
OPN Line 0981 HM&E < 5,000 (Material)	6.255	6.413	5.105
OPN Line 0981 HM&E < 5,000 (Install)	10.000	13.891	14.409

D. ACQUISITION STRATEGY:

TECHNOLOGY TRANSFER - RDT&E efforts commenced in FY06. Multiple contracts and Field Activities will be involved to complete the various projects.

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION				DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS			PROJECT NUMBER AND NAME 2231/LCU Replacement and DMFD
COST (In Millions)	FY 2008	FY 2009	FY 2010	
Project Cost	1.789	2.316	2.324	
RDT&E Articles Qty	0	0	0	
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:				
TECHNOLOGY TRANSITION: Provides for research efforts on LCAC Future Naval Capabilities (FNC) to transfer technologies to functional uses on current LCACs. Current S&T initiatives include the following: sustainability/readiness/performance analysis; enhanced LCAC-M cost model; friction stir welding equipment evaluation; LCAC communications improvements; analysis of electrical systems during cold weather operations; LCAC model hydrodynamic testing; LCAC structural loads analysis; development and qualification of full authority digital engine controller for LCAC engines, and vibration reduction analysis.				

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7	PROGRAM ELEMENT NUMBER AND NAME 0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS	PROJECT NUMBER AND NAME 2231/LCU Replacement and DMFD		
B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
		FY 2008	FY 2009	FY 2010
Accomplishments/Effort/Subtotal Cost		1.789	2.316	2.324
RDT&E Articles Quantity		0	0	0
<p>TECHNOLOGY TRANSITION: Provides for research efforts on LCAC Future Naval Capabilities (FNC) to transfer technologies to functional uses on current LCACs. Current S&T initiatives include the following: sustainability/readiness/performance analysis; enhanced LCAC-M cost model; friction stir welding equipment evaluation; LCAC communications improvements; analysis of electrical systems during cold weather operations; LCAC model hydrodynamic testing; LCAC structural loads analysis; development and qualification of full authority digital engine controller for LCAC engines, and vibration reduction analysis.</p>				

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS							DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS			PROJECT NUMBER AND NAME 2231/LCU Replacement and DMFD					
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			
Component Development	WR/FFP	Various	1.730	1.030	MAY-09	1.029	JAN-10			
Systems Engineering	FFP	Various	1.162	0.190	MAY-09	0.195	JAN-10			
Subtotal Product Development			2.892	1.220		1.224				
Remarks:										
Development Support	WR	Various	0.878	0.368		0.368				
Subtotal Support Costs			0.878	0.368		0.368				
Remarks:										
Developmental T & E	WR	Various	0.277	0.114		0.115				
Operational T & E	WR	Various	0.155	0.068		0.069				
Test Assets	WR	Various	0.300	0.114		0.113				
Subtotal Test and Evaluation			0.732	0.296		0.297				
Remarks:										
Contractor Engineering Support	FFP	Various	0.575	0.250	MAY-09	0.251	JAN-10			
Gov't Engineering Support	WR	Various	0.000	0.000		0.000				
Program Management Support	CPFF	Various	0.292	0.114	JAN-09	0.115	JAN-10			
Travel	TO's	NAVSEA	0.139	0.068		0.069				
Subtotal Management Services			1.006	0.432		0.435				
Remarks:										
Total Cost			5.508	2.316		2.324				

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EXHIBIT R-4, SCHEDULE PROFILE

DATE
May 2009

APPROPRIATION/BUDGET ACTIVITY
RD TEN/BA 7

PROGRAM ELEMENT NUMBER AND NAME
0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS

PROJECT NUMBER AND NAME
2231/LCU Replacement and DMFD

Fiscal Year	2008				2009				2010			
Acq. Milestones	1	2	3	4	1	2	3	4	1	2	3	4
LCAC Science & Technology Initiatives												



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EXHIBIT R-4a, SCHEDULE DETAIL				DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 7		PROGRAM ELEMENT NUMBER AND NAME 0204413N/AMPHIBIOUS TACTICAL SUPPORT UNITS		PROJECT NUMBER AND NAME 2231/LCU Replacement and DMFD
Schedule Profile		FY 2008	FY 2009	FY 2010
LCAC S & T Initiatives		1Q-4Q	1Q-4Q	1Q-4Q