

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5				R-1 ITEM NOMENCLATURE 0604311N/LPD-17 CLASS SYSTEMS INTEGRATION			
COST (In Millions)				FY 2008	FY 2009	FY 2010	
Total PE Cost				4.175	0.982	5.304	
2283 / LPD-17 Class System Integration				4.175	0.982	5.304	
A. MISSION DESCRIPTION:							
<p>The LPD 17 Class ships are functional replacements for 41 ships of four classes of amphibious ships. These new ships embark, transport, and land elements of Marine landing forces in an amphibious assault by helicopters, landing craft, and amphibious vehicles. Tactics, techniques, and tools for naval expeditionary warfare continue to evolve. The LPD 17 Class configuration must continue to adapt to this evolutionary process, because these ships are expected to be in service until almost 2050. The LPD 17 design includes systems configurations that reduce operating and support costs and facilitate operational performance improvements. The RDT&E,N funding will be used for system engineering and integration efforts that will resolve obsolescence issues facing the LPD 17 class components, as well as develop further reductions in life cycle costs and will integrate performance upgrades in a rapid, affordable manner. These efforts will result in well-defined specifications and drawings in system integration design packages that provide technical baselines for follow-on ship procurements. This program is funded under Engineering and Manufacturing Development because it encompasses engineering and manufacturing development of new end items prior to production approval decision. Additionally, although operational testing ends in FY 2008, funding is required in FY 2010 for Follow On Test and Evaluation (FOT&E) as outlined in the Test and Evaluation Master Plan. Finally, LSD(R) Integration efforts begin in FY2010.</p>							
B. PROGRAM CHANGE SUMMARY:							
Funding:				FY 2008	FY 2009	FY 2010	
FY09 President's Budget				4.213	0.985	5.135	
FY10 President's Budget				4.175	0.982	5.304	
Total Adjustments				-0.038	-0.003	0.169	
(U) Summary of Adjustments							
Congressional Rescissions				0.000	0.000	0.000	
Congressional Adjustments				0.000	-0.003	0.000	
SBIR/STTR/FTT Assessment				-0.033	0.000	0.000	
Program Adjustments				0.000	0.000	0.250	
Rate/Misc Adjustments				-0.005	0.000	-0.081	
Total				-0.038	-0.003	0.169	

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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION) **DATE**
May 2009

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**
RD TEN/BA 5 **0604311N/LPD-17 CLASS SYSTEMS INTEGRATION**

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2008	FY 2009	FY 2010	Total Cost
SCN 3036 LPD 17	1,506.226	963.511	1,056.947	3,526.684

D. ACQUISITION STRATEGY:

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE May 2009		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604311N/LPD-17 CLASS SYSTEMS INTEGRATION			PROJECT NUMBER AND NAME 2283/LPD-17 Class System Integration		
COST (In Millions)	FY 2008	FY 2009	FY 2010				
Project Cost	4.175	0.982	5.304				
RDT&E Articles Qty	0	0	0				
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>The LPD 17 Class ships are functional replacements for 41 ships of four classes of amphibious ships. These new ships embark, transport, and land elements of Marine landing forces in an amphibious assault by helicopters, landing craft, and amphibious vehicles. Tactics, techniques, and tools for naval expeditionary warfare continue to evolve. The LPD 17 Class configuration must continue to adapt to this evolutionary process, because these ships are expected to be in service until almost 2050. The LPD 17 design includes systems configurations that reduce operating and support costs and facilitate operational performance improvements. System engineering and integration efforts that began in FY 1997 will develop further reductions in life cycle costs and will integrate performance upgrades in a rapid, affordable manner. Possible improvements include advanced sensors, advanced computers, advanced command and control software, advanced information systems technologies, and ship based logistics concepts. Cost reduction and improved performance will be accomplished through sustained modeling and simulation efforts, continued personnel reductions efforts, system performance tradeoff evaluation, and naval expeditionary warfare systems engineering. Feedback from the operational forces for integrating system configurations will be accomplished through the Naval Expeditionary Warfare Centers in Quantico, Dahlgren, and Little Creek, Virginia. These efforts will result in well-defined specifications and drawings in system integration design packages that provide technical baselines for follow-on ship procurements. Additionally, although operational testing ends in FY2008, funding is required in FY2010 for Follow On Test and Evaluation (FOT&E) as outlined in the Test and Evaluation Master Plan. Finally, LSD(R) Integration efforts begin in FY 2010.</p>							

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE May 2009
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604311N/LPD-17 CLASS SYSTEMS INTEGRATION	PROJECT NUMBER AND NAME 2283/LPD-17 Class System Integration	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2008	FY 2009	FY 2010
LSD(R) Systems Integration	0.000	0.000	0.250
RDT&E Articles Quantity	0	0	0
LSD(R) Systems Integration. LSD(R) is a replacement for the retiring LSD 41 and LSD 49 Classes (that may be based in the LPD 17 hull form). RD TEN profiles supports necessary preliminary efforts.			
	FY 2008	FY 2009	FY 2010
Systems Engineering/Integration	3.875	0.982	1.031
RDT&E Articles Quantity	0	0	0
Continue Naval Expeditionary Warfare Systems Engineering efforts and Integration efforts for unique LPD 17 Class systems, including efforts to resolve obsolescence issues impacting the class.			
	FY 2008	FY 2009	FY 2010
OT&E	0.300	0.000	4.023
RDT&E Articles Quantity	0	0	0
Funding allows for operational test force support, range time, procurement of rounds/targets for testing, and other related costs as defined by the Test and Evaluation Master Plan (TEMP). Operational Testing is on-going and will finish in FY 2008. FY 2010 funding is for Follow On Test & Evaluation (FOT&E).			

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS							DATE May 2009			
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604311N/LPD-17 CLASS SYSTEMS INTEGRATION			PROJECT NUMBER AND NAME 2283/LPD-17 Class System Integration					
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)		
Systems Engineering and Integration	Various	Various	9.811	0.000	DEC-08	1.031	OCT-09	0.000		
LSD(R) Systems Integration	Various	Various	0.000	0.000		0.250	VAR	0.000		
Subtotal Product Development			9.811	0.000		1.281		0.000		
Remarks:										
Subtotal Support Costs			0.000	0.000		0.000		0.000		
Remarks:										
OT&E/Interoperability	WR	OPTEVFOR	11.392	0.982		4.023		0.000		
Subtotal Test and Evaluation			11.392	0.982		4.023		0.000		
Remarks:										
Total Cost			21.203	0.982		5.304		0.000		

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EXHIBIT R-4, SCHEDULE PROFILE

DATE

May 2009

APPROPRIATION/BUDGET ACTIVITY

RD TEN/BA 5

PROGRAM ELEMENT NUMBER AND NAME

0604311N/LPD CLASS SYSTEMS INTEGRATION

PROJECT NUMBER AND NAME

2283/LPD-17 Class System Integration

Fiscal Year	2008				2009				2010			
	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones			IOC 									
Milestones III												
Test & Evaluation Milestones												
Operational Test												
Deliveries (LPD 20 -21)												

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EXHIBIT R-4a, SCHEDULE DETAIL						DATE May 2009	
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604311N/LPD-17 CLASS SYSTEMS INTEGRATION			PROJECT NUMBER AND NAME 2283/LPD-17 Class System Integration		
Schedule Profile		FY 2008	FY 2009	FY 2010			
Deliverables(LPD 20-21)		4Q	4Q				
Operational Evaluation (OT-IIC) (OPEVAL)		1Q-4Q	1Q				
Lead Ship IOC		3Q					
Milestone III			4Q				