

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603611M / Marine Corps Assault Vehicles
--	---

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	12.000	83.182	122.967	105.749	-	105.749	199.239	200.908	243.517	328.191	Continuing	Continuing
0025: New Amphibious Vehicle	12.000	83.182	122.967	105.749	-	105.749	199.239	200.908	243.517	328.191	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The new amphibious vehicle is an armored personnel carrier, balanced in performance, protection, and payload for employment within the Ground Combat Element (GCE) and throughout the range of military operations, to include a swim capability. FY15 funding will support ACV Increment 1.1 activities including the manufacture of prototype vehicles, testing, associated program support, and studies/technology development to advance high water speed.

Note: ACV Increment 1.1 leverages and continues the work that was previously accomplished under the Marine Personnel Carrier (MPC) program, funded in PE 0206623M; Project 9C85.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	95.182	136.967	275.760	-	275.760
Current President's Budget	83.182	122.967	105.749	-	105.749
Total Adjustments	-12.000	-14.000	-170.011	-	-170.011
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-14.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	7.046	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-35.927	-	-35.927
• Rate/Misc Adjustments	-	-	-134.084	-	-134.084
• Congressional General Reductions Adjustments	-7.046	-	-	-	-
• Congressional Directed Reductions Adjustments	-12.000	-	-	-	-

Change Summary Explanation

The funding decrease from FY14 to FY15 is a result of a revised program strategy.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014			
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603611M / Marine Corps Assault Vehicles				Project (Number/Name) 0025 / New Amphibious Vehicle				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
0025: New Amphibious Vehicle	12.000	83.182	122.967	105.749	-	105.749	199.239	200.908	243.517	328.191	Continuing	Continuing	
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-			
# The FY 2015 OCO Request will be submitted at a later date.													
A. Mission Description and Budget Item Justification													
The new amphibious vehicle is an armored personnel carrier, balanced in performance, protection, and payload for employment within the Ground Combat Element (GCE) and throughout the range of military operations, to include a swim capability. FY15 funding will support ACV Increment 1.1 activities including the manufacture of prototype vehicles, testing, associated program support, and studies/technology development to advance high water speed.													
Note: ACV Increment 1.1 leverages and continues the work that was previously accomplished under the Marine Personnel Carrier (MPC)program, funded in PE 0206623M; Project 9C85.													
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015		
Title: Product Development									53.478	117.715	67.708		
									Articles: -	-	-		
Description: System Design and Development													
FY 2013 Accomplishments: Continued Hull Survivability Demonstrator (HSD) activities to include prototype fabrication and testing. Awarded Requirements Refinement contracts to include identification of requirements trade-space, development of "baseline" technical parameters, and establishment of a common analytical framework for developing and evaluating concept design alternatives. Performed technology maturation, integration, and demonstration efforts.													
FY 2014 Plans: Initiate new amphibious vehicle innovation efforts to reduce cost and risk, provide associated program support and studies/ technology development to advance high water speed. Award Technology Exploration contracts to assess the technical and cost impacts of requirements that require modularity and also conduct experiments of the proposed designs submitted during the Requirements Refinement phase.													
FY 2015 Plans: Continue Technology Exploration contracts to assess the results of the experiments conducted in FY14 to revise the ACV Concept Design. Continue new amphibious vehicle innovation efforts to reduce cost and technical risk, provide associated program support													

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603611M / Marine Corps Assault Vehicles	Project (Number/Name) 0025 / New Amphibious Vehicle		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
and study/technology development to advance high water speed. Procure prototype vehicles for Drive-Off Competition and Tactics, Techniques, and Procedures development.				
Title: Engineering Technical Support Articles: Description: Engineering Technical Support FY 2013 Accomplishments: Initiated innovation efforts to reduce vehicle weight, technical risk, and cost. Continued support of HSD activities. Provided engineering and technical services in support of technology integration and demonstration activities, and support of requirements definition efforts. Continued providing contractor engineering and management support for program planning, analysis, and execution. Provided technical assessment and engineering for digital integration architecture and facilitization. FY 2014 Plans: Initiate new amphibious vehicle innovation efforts to reduce vehicle weight, technical risk and cost. Pursue technology development and other studies to advance high water speed. Continue engineering and technical services in support of technology integration and demonstration activities, and concept development efforts. Continue engineering and management support for program planning, analysis, and execution. FY 2015 Plans: Continue evaluation of technology development efforts and other studies. Continue engineering and technical services in support of technology integration and demonstration activities, and concept development efforts. Continue engineering and management support for program planning, analysis, and execution. Continue technical assessment and engineering for digital integration architecture and facilitization. Pursue technology development and other studies to support new amphibious vehicle capability.		24.454 -	5.177 -	37.016 -
Title: Program Management Support Articles: Description: Program Management Support FY 2013 Accomplishments: Provided program management support for acquisition documentation preparation and statement of work development. Provided transportation/shipment of government equipment in support of HSD test activities. Performed travel in support of program requirements. FY 2014 Plans:		5.250 -	0.075 -	1.025 -

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603611M / <i>Marine Corps Assault Vehicles</i>	Project (Number/Name) 0025 / <i>New Amphibious Vehicle</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Provide transportation/shipment of government equipment in support of HSD test activities.			
FY 2015 Plans: Provide program management support for acquisition documentation preparation and statement of work development in support of Request for Proposal (RFP) release. Provide acquisition documentation support in preparation for Milestone B decision. Provide transportation/shipment of government equipment. Perform travel in support of program requirements.			
Accomplishments/Planned Programs Subtotals		83.182	122.967
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Acquisition strategy is to award competitive prototype contracts to up to three vendors to build 11 vehicles each (8 for Drive-Off Competition and 3 for Tactics, Techniques, and Procedures Development). The ACV Increment 1.1 will enter the acquisition cycle at Milestone B in FY16 and award Prototype Contracts which will lead to a down select to one in FY18 entering into Low Rate Initial Production (LRIP).			
E. Performance Metrics Milestone Reviews			

UNCLASSIFIED

PE 0603611M: *Marine Corps Assault Vehicles*
Navy

R-1 Line #53

R-1 Program Element (Number/Name)
PE 0603611M / Marine Corps Assault
Vehicles

Page 5 of 5

ACV 1.1 Schedule

