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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603382N: <i>Advanced Combat Systems Tech</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	3.605	1.658	1.418	-	1.418	1.511	1.579	1.744	1.774	Continuing	Continuing
0324: <i>Adv Combat System Technology</i>	1.613	1.658	1.418	-	1.418	1.511	1.579	1.744	1.774	Continuing	Continuing
9999: <i>Congressional Adds</i>	1.992	-	-	-	-	-	-	-	-	0.000	1.992

A. Mission Description and Budget Item Justification

The Advanced Combat System Technology line is to evolve the technical and business practices for programs to change to an open architecture construct. The program was constructed to mature both technical and business model integration for C5I systems programs of record in an open architecture environment. The priority was incorporating the principles of modular design and design disclosure, reusable application software, interoperability and secure information exchange, lifecycle affordability and encouraging competition and collaboration.

Project Unit 0324: Funding is to maintain a repository environment to improve transparency of design disclosure and to support the principle of cross-domain reuse. The other elements of the Naval Open Architectures (OA) transformation effort are to be realized as management efficiencies within programs. Those elements include ensuring that all Naval systems, family of systems, and programs move to modular OA in accordance with Department of Defense (DOD) 5000.1 dated 12 May 2003 which mandates that all DOD programs utilize open systems architecture in order to rapidly field affordable and interoperable systems. By direction of the Navy Service Acquisition Executive (SAE), PEO IWS is assigned overall responsibility and authority to direct the Navy's OA effort. That policy established a need to coordinate acquisition strategies, develop guidance, and develop analysis of alternatives to determine OA software reuse practices within and across all Navy Communities of Interest (COI - Surface, Subsurface, Air, Space, and C4I). This project is to work closely with the T&E and certification communities in defining regression testing and certification requirements for all OA upgrades and software reuse applications. This project seeks to create a strategic shift in the acquisition business process to facilitate cooperative competition in cross-domain/COI business relationships. This will improve innovation and economies of scale throughout the Navy. This development effort will identify the business case and return on investment for moving the Navy towards an open systems approach, support the development of open systems technologies, and integrate best business and technical practices for open systems development within Naval acquisition. Naval OA project ensure Navy-wide system architectures become extensible and scalable in function, capacity, and workload to meet Joint warfighting requirements. This also includes the identification and development of common software components, functions, and reuse methodologies. In summary, this funding supports the management of a reuse repository and to evolve business, systems engineering and cultural changes required across all Naval programs as they are migrated to function in a joint net centric warfare environment.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	3.662	1.658	1.677	-	1.677
Current President's Budget	3.605	1.658	1.418	-	1.418
Total Adjustments	-0.057	-	-0.259	-	-0.259
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.057	-			
• Program Adjustments	-	-	-0.213	-	-0.213
• Rate/Misc Adjustments	-	-	-0.046	-	-0.046

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *OpenArchitecture/Maintenance Free Operating Period*

	FY 2010	FY 2011
Congressional Add Subtotals for Project: 9999	1.992	-
Congressional Add Totals for all Projects	1.992	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603382N: <i>Advanced Combat Systems Tech</i>				PROJECT 0324: <i>Adv Combat System Technology</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0324: <i>Adv Combat System Technology</i>	1.613	1.658	1.418	-	1.418	1.511	1.579	1.744	1.774	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Project Unit 0324: Funding is to maintain a repository environment to improve transparency of design disclosure and to support the principle of cross-domain reuse. The other elements of the Naval Open Architectures (OA) transformation effort are to be realized as management efficiencies within programs. Those elements include ensuring that all Naval systems, family of systems, and programs move to modular OA in accordance with Department of Defense (DOD) 5000.1 dated 12 May 2003 which mandates that all DOD programs utilize open systems architecture in order to rapidly field affordable and interoperable systems. By direction of the Navy Service Acquisition Executive (SAE), PEO IWS is assigned overall responsibility and authority to direct the Navy's OA effort. That policy established a need to coordinate acquisition strategies, develop guidance, and develop analysis of alternatives to determine OA software reuse practices within and across all Navy Communities of Interest (COI - Surface, Subsurface, Air, Space, and C4I). This project is to work closely with the T&E and certification communities in defining regression testing and certification requirements for all OA upgrades and software reuse applications. This project seeks to create a strategic shift in the acquisition business process to facilitate cooperative competition in cross-domain/COI business relationships. This will improve innovation and economies of scale throughout the Navy. This development effort will identify the business case and return on investment for moving the Navy towards an open systems approach, support the development of open systems technologies, and integrate best practices for open systems development within Naval acquisition. Naval OA project ensures Navy-wide system architectures become extensible and scalable in function, capacity, and workload to meet Joint warfighting requirements. This also includes the identification and development of common software components, functions, and reuse methodologies. In summary, this funding supports the management of a reuse repository and to evolve business, systems engineering and cultural changes required across all Naval programs as they are migrated to function in a joint net centric warfare environment.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: Align the Naval Enterprise Across All Domains to Implement OA	0.170	0.200	0.150
Articles:	0	0	0
FY 2010 Accomplishments: OA Enterprise Alignment: This funding supports the preparation and execution of the Naval OA Strategy, including the quarterly OA Enterprise Team Lead Council meetings and reporting requirements of the OA Enterprise Team (OAET). Specifically, this includes OAET reporting of action items to Deputy Assistant Secretary of the Navy (DASN), report to Congress, as well as the annual OA budget submission and financial reporting for this project. Alignment across the Enterprise also includes the development and management of all other activities as the Lead Council directs. During FY10, Share II was brought online which transitions from a government prototype to an industry application, OA Contract Guidebook Version 2.0 was released which			

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603382N: <i>Advanced Combat Systems Tech</i>	PROJECT 0324: <i>Adv Combat System Technology</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<p>provides contract language for increased utilization of open source software applications and product reuse, and the program office conducted OA compatibility analysis on Ship Machinery Control Systems for PEO ships.</p> <p>FY 2011 Plans: OA Enterprise Alignment: This funding supports the preparation and execution of the Naval OA Strategy, including the quarterly OA Enterprise Team Lead Council meetings and reporting requirements of the OA Enterprise Team (OAET). Specifically, this includes OAET reporting of action items to DASN, report to Congress, as well as the annual OA budget submission and financial reporting for this project. Alignment across the Enterprise also includes the development and management of all other activities as the Lead Council directs.</p> <p>FY 2012 Plans: OA Enterprise Alignment: This funding supports the preparation and execution of the Naval OA Strategy, including the quarterly OA Enterprise Team Lead Council meetings and reporting requirements of the OA Enterprise Team (OAET). Specifically, this includes OAET reporting of action items to DASN, report to Congress, as well as the annual OA budget submission and financial reporting for this project. Alignment across the Enterprise also includes the development and management of all other activities as the Lead Council directs.</p>				
<p>Title: Change the Naval and Marine Corps Cultures to Institutionalize OA Principle</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: OA Enterprise Communications and Training: This funding supports the activities to enable the cultural adoption of OA principles and practices through stakeholder management, communications, training, and OA Knowledge Management. Key activities include the development on an enterprise workforce training and education program and establishment of professional curricula (OA modular acquisition and OA systems engineering) with academia and Naval Institutes. This program plan includes participation, liaison, and coordination with multiple stakeholders including the Department of Navy Chief Information Officer (DON CIO), Naval Post Graduate School, and other communication vehicles, to identify OA standards and technologies and incorporate into Naval system acquisition.</p> <p>FY 2011 Plans: OA Enterprise Communications and Training: This funding supports the activities to enable the cultural adoption of OA principles and practices through stakeholder management, communications, training, and OA Knowledge Management. Key activities include the development on an enterprise workforce training and education program and establishment of professional curricula (OA modular acquisition and OA systems engineering) with academia and Naval Institutes. This program plan includes participation, liaison, and coordination with multiple stakeholders including the Department of Navy Chief Information Officer (DON</p>		0.350 0	0.335 0	0.300 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<p>CIO), Naval Post Graduate School, and other communication vehicles, to identify OA standards and technologies and incorporate into Naval system acquisition.</p> <p>FY 2012 Plans: OA Enterprise Communications and Training: This funding supports the activities to enable the cultural adoption of OA principles and practices through stakeholder management, communications, training, and OA Knowledge Management. Key activities include the development on an enterprise workforce training and education program and establishment of professional curricula (OA modular acquisition and OA systems engineering) with academia and Naval Institutes. This program plan includes participation, liaison, and coordination with multiple stakeholders including the Department of Navy Chief Information Officer (DON CIO), Naval Post Graduate School, and other communication vehicles, to identify OA standards and technologies and incorporate into Naval system acquisition.</p>				
<p>Title: OA Systems Engineering Leadership</p> <p>FY 2010 Accomplishments: Systems Engineering: This funding supports systems engineering collaboration across the enterprise to facilitate the fielding of interoperable capabilities including a) the alignment of PEO architectures (e.g. PEO IWS and PEO C4I); b) providing guidance to Technical Warrant Holder who oversee OA implementation efforts ensuring standardized and disciplined processes are utilized across domains (e.g. standards and interfaces, services); c) working with the Science & Technology (S&T) community to ensure OA is coordinating on emerging technologies; and d) working with the Test & Evaluation (T&E) community and academia/industry partners to identify opportunities to reduce T&E expenses as a result of OA.</p> <p>FY 2011 Plans: Systems Engineering: This funding supports systems engineering collaboration across the enterprise to facilitate the fielding of interoperable capabilities including a) the alignment of PEO architectures (e.g. PEO IWS and PEO C4I); b) providing guidance to Technical Warrant Holder who oversee OA implementation efforts ensuring standardized and disciplined processes are utilized across domains (e.g. standards and interfaces, services); c) working with the S&T community to ensure OA is coordinating on emerging technologies; and d) working with the T&E community and academia/industry partners to identify opportunities to reduce T&E expenses as a result of OA.</p> <p>FY 2012 Plans: Systems Engineering: This funding supports systems engineering collaboration across the enterprise to facilitate the fielding of interoperable capabilities including a) the alignment of PEO architectures (e.g. PEO IWS and PEO C4I); b) providing guidance to Technical Warrant Holder who oversee OA implementation efforts ensuring standardized and disciplined processes are utilized across domains (e.g. standards and interfaces, services); c) working with the S&T community to ensure OA is coordinating on</p>		<p>0.450</p> <p>Articles: 0</p>	<p>0.450</p> <p>0</p>	<p>0.368</p> <p>0</p>

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012	
emerging technologies; and d) working with the T&E community and academia/industry partners to identify opportunities to reduce T&E expenses as a result of OA.					
Title: Change Naval Processes and Business Practices					
		Articles:	0.643 0	0.673 0	0.600 0
FY 2010 Accomplishments: Naval Business Practices: This funding supports the required activities of the OA Enterprise Team to change software reuse Naval Business Practices including a) the development and refinement of policies, guidance and terminology required to establish a consistent approach for OA across the enterprise; b) assist the Milestone Decision Authority, Program Manager (PM), and Resource Sponsor in assessing the development and maintenance of analytical toolsets (i.e. OA Assessment Tool) programs openness, to make informed OA investment decisions; and c) the facilitation of design disclosure and cross-domain component reuse to reduce costs and enable more effective technology insertion including the administration of an OA Enterprise Asset Repository Capability that incorporates a common end-user licensing agreement and enterprise configuration management processes that are open and accessible to all Naval and Joint programs and qualified vendors. During FY10 the funding will cover the Software Hardware Asset Reuse Enterprise (SHARE) effort. SHARE establishes a functional process and asset repository to publish government owned assets central to the OA strategy. This repository is key to the health and maturity of the Navy OA effort and serves as an enterprise wide asset. Repository efforts are being transitioned to leverage lower cost alternatives.					
FY 2011 Plans: Naval Business Practices: This funding supports the required activities of the OA Enterprise Team to change software reuse Naval Business Practices including a) the development and refinement of policies, guidance and terminology required to establish a consistent approach for OA across the enterprise; b) assist the Milestone Decision Authority, PM, and Resource Sponsor in assessing the development and maintenance of analytical toolsets (i.e. OA Assessment Tool) programs openness, to make informed OA investment decisions; and c) the facilitation of design disclosure and cross-domain component reuse to reduce costs and enable more effective technology insertion including the administration of an OA Enterprise Asset Repository Capability that incorporates a common end-user licensing agreement and enterprise configuration management processes that are open and accessible to all Naval and Joint programs and qualified vendors. Funding will cover the Software Hardware Asset Reuse Enterprise (SHARE) effort. SHARE establishes a functional process and asset repository to publish government owned assets central to the OA strategy. This repository is key to the health and maturity of the Navy OA effort and serves as an enterprise wide asset. Repository efforts will transition to leverage lower cost alternatives.					
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
a consistent approach for OA across the enterprise; b) assist the Milestone Decision Authority, PM, and Resource Sponsor in assessing the development and maintenance of analytical toolsets (i.e. OA Assessment Tool) programs openness, to make informed OA investment decisions; and c) the facilitation of design disclosure and cross-domain component reuse to reduce costs and enable more effective technology insertion including the administration of an OA Enterprise Asset Repository Capability that incorporates a common end-user licensing agreement and enterprise configuration management processes that are open and accessible to all Naval and Joint programs and qualified vendors. Funding will cover the Software Hardware Asset Reuse Enterprise (SHARE) effort. SHARE establishes a functional process and asset repository to publish government owned assets central to the OA strategy. This repository is key to the health and maturity of the Navy OA effort and serves as an enterprise wide asset. Repository efforts will transition to leverage lower cost alternatives.			
Accomplishments/Planned Programs Subtotals	1.613	1.658	1.418

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• R&D/0604307N /1447: <i>AEGIS Surf Combatant Combat Sys Imp</i>	177.109	193.933	223.283	0.000	223.283	224.116	371.311	341.508	381.221	Continuing	Continuing
• R&D/0604755N /2178: <i>Ship Self Defense System</i>	26.925	36.594	64.360	0.000	64.360	67.514	60.681	51.265	49.236	Continuing	Continuing
• R&D/0603658N /2039: <i>Cooperative Engagement Capability</i>	54.295	52.282	54.783	0.000	54.783	44.360	62.234	67.430	80.382	Continuing	Continuing

D. Acquisition Strategy

This risk reduction effort evolved and shifted from a PEO IWS 1.0 task to Naval Surface Warfare Center (NSWC)/Dahlgren to an Assistant Secretary of the Navy, Research, Development & Acquisition (ASN-RDA) directed task to fund the Navy's OA Enterprise effort from this core OA. Budget line (policy statement dated 5 August 2004). The strategy was further refined in the Deputy Chief of Naval Operations (DCNO) requirement of 23 December 2005 (N6/7) with guidance for this effort to assist the Milestone Decision Authority (MDA), program managers, and resource sponsors in assessing enterprise program assets where appropriate. Office of the Chief of naval Operations (OPNAV) has directed this program to provide objective, measurable, performance based assessments as Business Case Analysis (BCA) baselines for future system changes and spiral developments.

E. Performance Metrics

Change Naval Processes and business practices to cost-effectively innovate and deploy improved warfighting capability based on fleet requirements. Provide OA Systems Engineering to field common, interoperable capabilities; Change Navy and Marine Corps Business Cultures to Institutionalize OA Principles.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SE/OA Domain Support	C/FP	APL:Baltimore, MD	0.725	-		-		-		-	0.000	0.725	Continuing
Systems Engineering	WR	NSWC / Dahlgren:Dahlgren, VA	11.953	0.705	Nov 2010	0.700	Oct 2011	-		0.700	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/CRANE & Carderock:VARIOUS	2.062	-		-		-		-	0.000	2.062	Continuing
Systems Engineering	C/CPAF	Lockheed Martin, NJ; General Dynamics, VA; IBM:Washington DC	4.606	0.253	Dec 2010	0.061	Dec 2011	-		0.061	0.000	4.920	Continuing
OA DOMAIN SUPPORT	WR	NUWC/Newport, Spawar, Navair:VARIOUS	11.931	-		-		-		-	0.000	11.931	Continuing
SE/Signal Processor	C/CPAF	Lockheed Martin:VARIOUS	6.000	-		-		-		-	0.000	6.000	Continuing
SE/Signal Processor	C/CPAF	BAE:VARIOUS	0.300	-		-		-		-	0.000	0.300	Continuing
SE/Signal Processor	C/CPAF	Raytheon:VARIOUS	0.100	-		-		-		-	0.000	0.100	Continuing
SE/Signal Processor	WR	NSWC/DD, NRL, PHD:VARIOUS	0.600	-		-		-		-	0.000	0.600	Continuing
Subtotal			38.277	0.958		0.761		-		0.761			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Industry Development	C/FP	IBM, ANGLE:VARIOUS	8.393	0.500	Dec 2010	0.457	Nov 2011	-		0.457	0.000	9.350	Continuing
Technical Data-Academia	WR	NPS-Monterey/ DAU:MONTEREY, CA	1.876	-		-		-		-	0.000	1.876	Continuing
Software Development	C/FP	MITRE, SEI:VARIOUS	0.309	-		-		-		-	0.000	0.309	Continuing
Subtotal			10.578	0.500		0.457		-		0.457	0.000	11.535	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603382N: <i>Advanced Combat Systems Tech</i>	PROJECT 0324: <i>Adv Combat System Technology</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0324				
Incorporate OA Principles in Acquisition Strategies and Contracts	1	2010	3	2016
Change Culture through OA Education, Outreach and Training	1	2010	4	2016
Conduct Program Assessments	2	2010	2	2016
Adapt ONR Technologies	1	2010	3	2016
Publish Contract Guidebook Update	3	2010	3	2016
Host Contracting/Industry Symposium	4	2010	4	2016
Deliver Report to Congress	1	2010	4	2016
Host OA Lead Council Meeting	1	2010	4	2016

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	1.992	-	-	-	-	-	-	-	-	0.000	1.992
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Open Architecture/Maintenance Free Operating Period (MFOP)- This funding supports the pilot program for AN/BSY-10, co-sponsored with ASN (RDA), it incorporates software tools and hardware redundancy into Commercial Off-The-Shelf (COTS) based open architected systems such that the system self-checking and self-healing capabilities virtually eliminate at-sea open cabinet maintenance. This funding extends the application of OA/MFOP to investigate the adoption of MFOP tools in other Navy National Security Systems as an OA reusable component.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011
Congressional Add: OpenArchitecture/Maintenance Free Operating Period	1.992	-
FY 2010 Accomplishments: 1) Complete the OA/MFOP System Verification Testing 2) Obtain Interim Authority To Operate (IATO)/Information Assurance (IA) Certification allowing the OA/MFOP Demonstration system to connect to the Navy's SIPRnet for distance support communications. 3) Finish Installation of the Demonstration System aboard LHD 7 4) Conduct the live Demonstration on a combatant platform (6 Month Test) 5) Report Lessons Learned		
Congressional Adds Subtotals	1.992	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Successfully establish new methods for reducing lifecycle costs.

