

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4							R-1 ITEM NOMENCLATURE 0603739N, NAVY LOGISTIC PRODUCTIVITY			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013		
Total PE Cost	19.863	24.612	3.547	2.846	2.980	3.107	3.165	3.224		
2920 Ordnance Management	5.678	3.660	.947							
2955 JEDMICS	2.864	2.622	2.600	2.846	2.980	3.107	3.165	3.224		
9999 CONGRESSIONAL ADDS	11.321	18.330								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Ordnance Management 2920 Covers the conversion of Naval Ammunition Logistics Center (NALC) systems to the Ordnance Information Systems(OIS).

JEDMICS 2955 In FY85 Congress directed the Services and Defense Logistics Agency to permanently capture, manage and control engineering data in digital format so it would be available to support competitive spares re-procurement. The Joint Engineering Data Management Information & Control System (JEDMICS) program manages and controls 106,000,000 engineering images and has 25,000 authorized users responsible for over 70,000 user sessions per month. Over 2.5 million digital images are retrieved each month. New data and new users are added each month as DoD re-engineers its business processes to take advantage of digital data that is managed and controlled for corporate reuse. The JEDMICS system is deployed at 19 interoperable sites that service 600 locations worldwide. Data stored in JEDMICS is used for Logistics Support, Spares re-procurement, Weapons Systems procurement, Engineering, Maintenance, Distribution, Manufacturing, Air National Guard and Deployed Engineering Technical Services organizations. JEDMICS facilitates work process re-design since its brings the electronic drawings to the desktop, shop floor or flight line in real time eliminating walk, wait and slack time to retrieve drawings. Additionally, Administrative Lead Time, Repair Turn Around Time, ECP processing time, demilitarization time, and all cycle times dependent on engineering data have decreased with the real time availability of digital engineering data. JEDMICS also facilitates Electronic Commerce since it produces digital technical data packages that can be forwarded along with an electronic order. Funds are for Commercial Off The Shelf (COTS) test, evaluation and integration. JEDMICS development efforts are required to integrate and test COTS upgrades.

Congressional Adds 9999

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4	R-1 ITEM NOMENCLATURE 0603739N, NAVY LOGISTIC PRODUCTIVITY	

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget:	20.575	6.306	3.641	2.906
Current BES:	19.863	24.612	3.547	2.846
Total Adjustments	-0.712	18.306	-0.094	-0.060
Summary of Adjustments				
Congressional Reductions	-0.114			
Congressional Rescissions				
Congressional Undistributed Reductions	-0.598	-0.094		
Congressional Increases		18.400		
Economic Assumptions			0.022	0.022
Miscellaneous Adjustments			-0.116	-0.082
Subtotal	-0.712	18.306	-0.094	-0.060

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4		PROGRAM ELEMENT NUMBER AND NAME 0603739N Navy Logistic Productivity			PROJECT NUMBER AND NAME 2920 Ordnance Management				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		5.678	3.660	.947					
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Naval Operational Logistics Support Center(NOLSC) systems conversion to the Ordnance Information Systems(OIS): The OIS is an umbrella concept that integrates approximately 12 different functions that are currently produced by "stove-pipe" systems. OIS is an integrated suite of tools that uses the latest available information technology and best commercial practices to provide timely, relevant and accurate ordnance information and global ordnance visibility. It integrates wholesale, retail, and unique ordnance decision support systems to facilitate global ordnance positioning and information sharing across the DoN ordnance community to maximize warfighter support. Without a robust ordnance information system, the Navy and Marine Corps Aviation's ability to prevail in combat is jeopardized. This degradation will increase exponentially in the joint environment and the RDT&E initiatives listed herein are designed to ensure maximum Information Technology(IT) capability.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2007																															
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603739N Navy Logistic Productivity	PROJECT NUMBER AND NAME 2920 Ordnance Management																																
B. Accomplishments/Planned Program																																		
<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <thead> <tr> <th style="width: 35%;"></th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> <th style="width: 15%;">FY 08</th> <th style="width: 15%;">FY 09</th> </tr> </thead> <tbody> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td style="text-align: center;">5.678</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin-bottom: 20px;"> NALC software development, training development, and configuration management for the following OIS systems: PHS&T, Joint Sentencing Toolkit, Weapons Maintenance Support, Explosive Safety, etc. </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <thead> <tr> <th style="width: 35%;"></th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> <th style="width: 15%;">FY 08</th> <th style="width: 15%;">FY 09</th> </tr> </thead> <tbody> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td style="text-align: center;">3.660</td> <td style="text-align: center;">0.947</td> <td></td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px;"> NALC software development, training development, and configuration management for the following systems: PHS&T, Production / Industrial Base Support and Weapons Allocation Capability. </div>						FY 06	FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost	5.678				RDT&E Articles Quantity						FY 06	FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		3.660	0.947		RDT&E Articles Quantity				
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RDT&E Articles Quantity																																		

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME					
RDT&E,N / BA-4	0603739N, NAVY LOGISTIC PRODUCTIVITY			2955, JEDMICS					
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
2955 JEDMICS	2.864	2.622	2.600	2.846	2.980	3.107	3.165	3.224	
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM

JUSTIFICATION: In FY85 Congress directed the Services and Defense Logistics Agency to permanently capture, manage and control engineering data in digital format so it would be available to support competitive spares re-procurement. The Joint Engineering Data Management Information & Control System (JEDMICS) program manages and controls 106,000,000 engineering images and has 25,000 authorized users responsible for over 70,000 user sessions per month. Over 2.5 million digital images are retrieved each month. New data and new users are added each month as DoD re-engineers its business processes to take advantage of digital data that is managed and controlled for corporate reuse. The JEDMICS system is deployed at 19 interoperable sites that service 600 locations worldwide. Data stored in JEDMICS is used for Logistics Support, Spares re-procurement, Weapons Systems procurement, Engineering, Maintenance, Distribution, Manufacturing, Air National Guard and Deployed Engineering Technical Services organizations. JEDMICS facilitates work process re-design since it brings the electronic drawings to the desktop, shop floor or flight line in real time eliminating walk, wait and slack time to retrieve drawings. Additionally, Administrative Lead Time, Repair Turn Around Time, ECP processing time, demilitarization time, and all cycle times dependent on engineering data have decreased with the real time availability of digital engineering data. JEDMICS also facilitates Electronic Commerce since it produces digital technical data packages that can be forwarded along with an electronic order. Funds are for Commercial Off The Shelf (COTS) test, evaluation and integration. JEDMICS development efforts are required to integrate and test COTS upgrades.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

JEDMICS Development	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	2.602	2.344	2.397	2.641
RDT&E Articles Qty				

Conduct development efforts associated with COTS obsolescence of the fully deployed COTS intensive JEDMICS system. Conduct COTS requirements definition, evaluation, integration and testing of annual baseline releases. Conduct technology insertion of the JEDMICS system that is required to protect the \$21B digital data asset managed in JEDMICS.

JEDMICS Test	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.045	.045	.045	.045
RDT&E Articles Qty				

Conduct test and readiness reviews and functional performance tests on JEDMICS system.

JEDMICS Evaluation & Review	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.217	.233	.158	.160
RDT&E Articles Qty				

Conduct technical evaluations and configuration control reviews of JEDMICS system

C. OTHER PROGRAM FUNDING SUMMARY:	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
Not Applicable										

D. ACQUISITION STRATEGY: Execution of sole-source negotiated requirements type contract for engineering, design, development and test efforts, Performance-based reviews conducted quarterly by the Project Management Office.

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-4		PROGRAM ELEMENT 0603739N, NAVY LOGISTIC PRODUCTIVITY				PROJECT NUMBER AND NAME 2955, JEDMICS						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
SUBTOTAL PRODUCT DEVELOPMENT												

Remarks:

SUPPORT												
Software Development	VARIOUS	VARIOUS	10.469								10.469	
Software Development	SS-ID/REQ	NORTHROP GRUMMAN INFORMATION TECHN	2.602	2.344	Nov 2006	2.397	Nov 2007	2.641	Nov 2008	17.874	27.858	27.858
SUBTOTAL SUPPORT			13.071	2.344		2.397		2.641		17.874	38.327	

Remarks: Funds are for development efforts associated with Commercial Off The Shelf (COTS) obsolescence on the fully deployed COTS Intensive Joint Engineering Data Management Information & Control System (JEDMICS). Funds are for COTS evaluation, integration, and test and evaluation. The common baseline will be regained and obsolete COTS software and hardware will be replaced. Baseline releases will protect joint interoperability, upgrade operating systems for security patches and supportable versions, support integration to replace obsolete COTS, and upgrade the Oracle database to supportable versions.

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Exhibit R-3 Cost Analysis (page 1)			DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-4		PROGRAM ELEMENT 0603739N, NAVY LOGISTIC PRODUCTIVITY	PROJECT NUMBER AND NAME 2955, JEDMICS		

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TEST & EVALUATION												
Dev Test & Eval	VARIOUS	VARIOUS	2.288	.045	Oct 2006	.045	Oct 2007	.045	Oct 2008	.270	2.693	
SUBTOTAL TEST & EVALUATION			2.288	.045		.045		.045		.270	2.693	

Remarks: Supports testing and evaluation of baseline releases in a user environment.

MANAGEMENT	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Government Eng Sup	VARIOUS	VARIOUS	.860	.184	Oct 2006	.108	Oct 2007	.109	Oct 2008	.661	1.922	
Program Mgmt Sup	WX	VARIOUS	.149	.005	Oct 2006	.005	Oct 2007	.005	Oct 2008	.036	.200	
Travel	VARIOUS	VARIOUS	.153	.044	VARIOUS	.045	VARIOUS	.046	VARIOUS	.297	.585	
SUBTOTAL MANAGEMENT			1.162	.233		.158		.160		.994	2.707	

Remarks: Supports requirements management at the Prime Contractor location and program related travel by government employees.

Total Cost			16.521	2.622		2.600		2.846		19.138	43.727	
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EXHIBIT R4, Schedule Profile																							DATE:													
APPROPRIATION/BUDGET ACTIVITY																							PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME									
RDT&E,N / BA-4																							0603739N, NAVY LOGISTIC PRODUCTIVITY				2955, JEDMICS									
Fiscal Year	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013							
	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	1	2	3	4				
Acquisition Milestones	MSIIG/C6				MS IIIH/C7				MSIII/C8				MS IIIJ/C9				MSIIIK/C10				MSIIIL/C11				MSIIIM/C12				MSIIIN/C13							
Requirements: Service IPT/ECPS				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13				Release 3.14				Release 3.15				
Contract Award	Release 3.7				Release 3.8				Release 3.9				Release				Release				Release				Release											
Software and Hardware Evaluation / Integration	Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13				Release 3.14							
Test & Evaluation Milestones				Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13				Release 3.14				
Risk Assessment				Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13				Release 3.14				
Developmental/Functional Testing				Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13				Release 3.14				
Alpha/Beta Testing	Release 3.6				Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release				Release			
Deliveries: Engineering Change Package	Release 3.6				Release 3.7				Release 3.8				Release 3.9				Release 3.10				Release 3.11				Release 3.12				Release 3.13							

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Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N / BA-4	0603739N, NAVY LOGISTIC PRODUCTIVITY				2955, JEDMICS			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Alpha/Beta Testing Release 3.6	1Q							
Engineering Change Package Release 3.6	1Q							
Milestone III G or C6 (MSIII G/C6) Release 3.6	1Q							
Contract Award Release 3.7	1Q							
Software Hardware Evaluation/Integration Release 3.7	1Q-3Q							
Risk Assessment Release 3.7	3Q							
Developmental/Functional Testing Release 3.7	4Q							
Service IPT/ECPs Release 3.8	4Q							
Alpha/Beta Testing Release 3.7	4Q	1Q						
Engineering Change Package Release 3.7		1Q						
Milestone III H or C7 (MSIII H/C7) Release 3.7		1Q						
Contract Award Release 3.8		1Q						
Software Hardware Evaluation/Integration Release 3.8		1Q-3Q						
Risk Assessment Release 3.8		3Q						
Developmental/Functional Testing Release 3.8		4Q						
Service IPT/ECPs Release 3.9		4Q						
Alpha/Beta Testing Release 3.8		4Q	1Q					
Engineering Change Package Release 3.8			1Q					
Milestone III I or C8 (MSIII I/C8) Release 3.8			1Q					
Contract Award Release 3.9			1Q					
Software Hardware Evaluation/Integration Release 3.9			1Q-3Q					
Risk Assessment Release 3.9			3Q					
Developmental/Functional Testing Release 3.9			4Q					
Service IPT/ECPs Release 3.10			4Q					
Alpha/Beta Testing Release 3.9			4Q	1Q				
Engineering Change Package Release 3.9				1Q				
Milestone III J or C9 (MSIII J/C9) Release 3.9				1Q				
Contract Award Release 3.10				1Q				
Software Hardware Evaluation/Integration Release 3.10				1Q-3Q				
Risk Assessment Release 3.10				3Q				
Developmental/Functional Testing Release 3.10				4Q				
Service IPT/ECPs Release 3.11				4Q				
Alpha/Beta Testing Release 3.10				4Q	1Q			
Engineering Change Package Release 3.10					1Q			

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Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N / BA-4	0603739N, NAVY LOGISTIC PRODUCTIVITY				2955, JEDMICS			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone IIIK or C10 (MSIIIK/C10) Release 3.10					1Q			
Contract Award Release 3.11					1Q			
Software Hardware Evaluation/Integration Release 3.11					1Q-3Q			
Risk Assessment Release 3.11					3Q			
Developmental/Functional Testing Release 3.11					4Q			
Service IPT/ECPs Release 3.12					4Q			
Alpha/Beta Testing Release 3.11					4Q	1Q		
Engineering Change Package Release 3.11						1Q		
Milestone IIIL or C11 (MSIIIL/C11) Release 3.11						1Q		
Contract Award Release 3.12						1Q		
Software Hardware Evaluation/Integration Release 3.12						1Q-3Q		
Risk Assessment Release 3.12						3Q		
Developmental/Functional Testing Release 3.12						4Q		
Service IPT/ECPs Release 3.13						4Q		
Alpha/Beta Testing Release 3.12						4Q	1Q	
Engineering Change Package Release 3.12							1Q	
Milestone IIIM or C12 (MSIIIM/C12) Release 3.12							1Q	
Contract Award Release 3.13							1Q	
Software Hardware Evaluation/Integration Release 3.13							1Q-3Q	
Risk Assessment Release 3.13							3Q	
Developmental/Functional Testing Release 3.13							4Q	
Service IPT/ECPs Release 3.14							4Q	
Alpha/Beta Testing Release 3.13							4Q	1Q
Engineering Change Package Release 3.13								1Q
Milestone IIIN or C13 (MSIIIN/C13) Release 3.13								1Q
Contract Award Release 3.14								1Q
Software Hardware Evaluation/Integration Release 3.14								1Q-3Q
Risk Assessment Release 3.14								3Q
Developmental/Functional Testing Release 3.14								4Q
Service IPT/ECPs Release 3.15								4Q
Alpha/Beta Testing Release 3.14								4Q

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-4			PROGRAM ELEMENT NUMBER AND NAME 0603739N, NAVY LOGISTIC PRODUCTIVITY			PROJECT NUMBER AND NAME 9999, CONGRESSIONAL ADDS				
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
CONGRESSIONAL ADDS			11.321	18.330						
RDT&E Articles Qty										

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: CONGRESSIONAL ADDS

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

2767C Improve Equipment Sustainability	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	4.128			
RDT&E Articles Qty				

FY 2006 - Collaborative Logistics Productivity (CLP) \$4.128

CLP is a government owned, contractor maintained, web-enabled information program providing DoD users with access to an open environment of logistics, supply chain, and engineering design interface data. CLP is designed to provide the Navy engineering and logistics infrastructure with the tools to shorten weapons system acquisition lead times, reduce equipment sparing requirements and improve equipment sustainability, while decreasing total ownership costs.

9047C JEDMICS Enhancements	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	2.587			
RDT&E Articles Qty				

Joint Engineering Data Management Information and Control System (JEDMICS): Complied with Congressional direction for Technical Data Management Enhancements.

9540C Support NLRRC	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.960			
RDT&E Articles Qty				

FY 2006 - Navy Logistics Readiness Research Center (NLRRC) \$960

Funding will support a NLRRC which allows Navy supply system managers, Navy acquisition managers, and weapon system program managers to address the Navy spare parts support shortfalls and configuration maintenance issues.

9541C SEALEGS	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	1.726			
RDT&E Articles Qty				

SEALEGS system on chip-based radar warning receiver processor: The Service Life Extension of Avionics Legacy Equipment with Guaranteed System (SEALEGS) Small Business Innovative Research (SBIR) Phase III program is predicated on a set of novel leading-edge highly automated engineering design and chip development tools used for behavioral analysis, clock-cycle accurate virtual modeling/prototyping, extensive regression testing, and design/layout of advanced system-on-chip (SoC) products for application to military systems. This technology eliminates the need for expensive system software re-writes and the resulting modernized system hardware is 100% binary compatible with the all of the legacy software. The technology also allows the military the option to gradually modernize software or use all new software written in modern HOL like 'C++-based' software...Resulting hardware is 100% compatible with all test equipment and is warranted for ten (10) years. Trusted supply and anti-tamper technology of critical chip components and systems is also available with this technology. All deliveries of modernized legacy hardware includes all software support tools. When applied correctly, this program will enable an entirely new approach to solving problems associated with lack of microcircuit supply (parts obsolescence) without demanding the need for expensive rewriting of legacy software. SoC technology uses leading edge technology enabling systems that are concurrently clock-cycle accurate replicas of the system being renewed and are capable new higher performance capabilities needed to introduce new functionality as weapon systems age. Program will extend the effective use of weapon systems while reducing the costs of operations and support. Use of highly automated engineering design tools enables solutions at about 30-40% the costs of other known approaches. Virtual models enable extensive system verification prior to hardware fabrication as well as verification of legacy software operability. Program addresses the existing operational requirements of systems receiving a technological upgrade in a form, fit and function compatibility to the existing subsystem. SoC typically permits replacement of tens of electronic modules with a single chip. The space freed-up by this technology is then available for additional functionality for new requirements. FY2006 funding will enable a flyable prototype of an Advanced AYK-14 mission computer used in older model F/A-18's, EA-6B, and other systems. The SEALEGS Program provides a means for the Navy/DoD to avoid the typical high costs associated with component obsolescence and software maintenance. Program Managers responsible for electronics commodities or weapons systems will have more ability to control the costs associated with support of their fielded systems without the need to sacrifice performance or the ability to introduce required new functionality. Under the FY2005 effort flyable prototype Advanced AYK-14 mission computers capable of running existing Operational Flight Program (OFF) software used by legacy F/A-18's were delivered and tested at the Naval Air Warfare Center - Weapons Division (NAWC-WD). These new computers were packaged in the same boxes used for the old computers and have ample residue space inside to add more critical functionality.

The continued application of SEALEGS technology by building upon FY2005 accomplishments with systems developed and tested by initiation of application of system-on-chip technology and utilizing the "new" spare module slots for additional system functionality including video image processing (for target identification and damage assessment) development of prototype processor hardware for electronic warfare radar warning receiver systems or other mission critical systems that yield increased warfighting capabilities for legacy platforms. In addition, other subsystems will be investigated for possible applications of the SEALEGS SoC technology.

9787N Container Tracking	FY 2006	FY 2007	FY 2008	FY 2009

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RDT&E,N / BA-4		0603739N, NAVY LOGISTIC PRODUCTIVITY		PROJECT NUMBER AND NAME
Accomplishments / Effort / Sub-total Cost		.960		9999, CONGRESSIONAL ADDS
RDT&E Articles Qty				

FY 2006 - AIT Enabled Activation Pack-up Kits \$.960
 Deploys AIT enabled electronic container tracking hardware and application software to Naval Air Stations for wireless monitoring and in-transit visibility of mission critical aviation Depot Level Repairables pre-positioned in Pack-up Kits for contingent operations... reduces turnover inventory from 2-3 days to 20-25 minutes, with 100% accuracy.

9788N Lead Free Components	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.960			
RDT&E Articles Qty				

FY 2006 - Logistics Impact of lead free circuits and components \$.960
 This initiative is a proactive approach towards mitigating the supply chain impact of European legislation (Waste Electrical & Electronic Equipment directive) eliminating the use of lead solder in micro-circuit boards and components, and determining impacts and approaches to repair capabilities.

9A13N Information Sharing	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		3.885		

FY 2007 - Defense Integrated Technical Data Center \$3.885 - This program will create an infrastructure with a set of applications to facilitate the sharing of weapons system product information between the members of the engineering and logistics communities to improve shipboard maintenance processes and sustain shipboard readiness. This will be accomplished by creating access within a single tool to critical technical (manuals, data packages, drawings, equipment configuration data, etc.) and supply (asset availability) information required to support the afloat maintenance process.

9A14N Fiber Optic Technology	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost		1.096		
RDT&E Articles Qty				

Fiber Optic Components for Military Applications \$1.096
 The purpose of this add is to develop fiber optic components for military aerospace applications and to obviate future maintenance and logistics problems through fiber optics/photonics.

9A15N Fiber Optic Technology	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost		1.793		
RDT&E Articles Qty				

Fiber Optic Interconnect Technology \$1.793
 The purpose of this add is to develop low cost, high quality fiber optic interconnect technology for military aerospace applications and to obviate future maintenance and logistics problems through fiber optics/photonics.

9A16N	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		1.445		

High Density Power Electronics - \$1.445 - Scope of Funding is Unknown.

UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification					DATE:
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME		February 2007
RDT&E,N / BA-4			0603739N, NAVY LOGISTIC PRODUCTIVITY		9999, CONGRESSIONAL ADDS
9A17N Infrared Sensors	FY 2006	FY 2007	FY 2008	FY 2009	
Accomplishments / Effort / Sub-total Cost		3.238			
RDT&E Articles Qty					

Multi-color infrared sensors \$3.238
 A continuation of the FY06 Service Life Extension of Avionics Legacy Equipment with Guaranteed System (SEALEGS) program, previously 9541C.

9A18N Logistics Innovation	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		.996		

FY 2007 Navy Operational Logistics Innovation - \$.996 - Congress appropriated and authorized \$1.0M for Navy Operational Logistics Innovation (NOLI) in FY 2007. The NOLI initiative will be a catalyst for identification, development, and implementation of technology based solutions that meet strategic Navy needs. The Navy must develop command and control logistics functionalities that fully utilize sensors, identification technology and distance support capability to turn raw logistics and maintenance significant data into actionable information for the operational commanders. This will allow the Navy to integrate previously stove-piped functions and data sources to achieve the operational agility and reduced force structure envisioned in DoD Transformation.

9A19N Lead Free Circuits	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		1.295		

FY 2007 - Reliability Testing of Lead Free Circuits/Components - \$1.295 - Congress appropriated and authorized \$1.3M for this program in FY 2007. As a result of European Council legislation which will immediately cause most manufacturers to use lead-free platings or alternative components on their manufactured components, there is a need for reliability research and product testing as it relates to the impact of this change on military hardware and relevant applications. In response to this need, a Reliability Research and Testing Program is proposed to address the product reliability problems that the military will face. A cornerstone of the program will be the development of a reliability testing laboratory within the Purdue Technology Center of Northwest Indiana. The development of this program and laboratory will assist in determining the impact of new material components and new processors on legacy military equipment of critical national importance.

9A20N Track Items	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		3.586		

FY 2007 - Unique Identification Of Tangible Items - \$3.586 - The UID Policy is an OSD mandate that will, once implemented, provide a means to track items from cradle to grave and provide the means to track the requirement footprint, streamline vendor payment via the Supply Chain, and provide procurement accountability.

9A21N	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost				
RDT&E Articles Qty		.996		

FY 2007 - Wireless Maritime Inspection System - \$.996 - Scope of Funding is Unknown.