Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*				R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*							
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	13.400	4.139	4.137	-	4.137	3.817	3.862	3.889	3.915	Continuing	Continuing
2955: *JEDMICS*	2.817	2.871	2.847	-	2.847	2.893	2.914	2.977	2.987	Continuing	Continuing
3223: *Logistics R&D*	0.875	0.890	0.926	-	0.926	0.924	0.948	0.912	0.928	Continuing	Continuing
3225: *Ordnance PHST*	0.386	0.378	0.364	-	0.364	-	-	-	-	0.000	1.128
9999: *Congressional Adds*	9.322	-	-	-	-	-	-	-	-	0.000	9.322

A. Mission Description and Budget Item Justification

Includes development and evaluation of incentive systems for improving the productivity of civilian and military personnel. Identifies barriers to increased productivity and evaluates the effect of removing them. Develops techniques for easing the introduction of new technology to the work place. Identifies and evaluates methods for improving the quality of work-life.

Excludes civilian and military manpower and their related costs and military construction costs which are included in appropriate Management and Support elements in this program.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	15.039	4.139	4.232	-	4.232
Current President's Budget	13.400	4.139	4.137	-	4.137
Total Adjustments	-1.639	-	-0.095	-	-0.095
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.195	-			
• Program Adjustments	-	-	-0.066	-	-0.066
• Section 219 Reprogramming	-0.009	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.029	-	-0.029
• Congressional General Reductions Adjustments	0.005	-	-	-	-
• Congressional Add Adjustments	-1.440	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*

Congressional Add Details ($ in Millions, and Includes General Reductions)	**FY 2010**	**FY 2011**
Project: 9999: *Congressional Adds*		
Congressional Add: *Hawaii National Guard Integrated Information Command System*	1.275	-
Congressional Add: *Photonic Integration Foundry*	2.390	-
Congressional Add: *Real-time Tactical Intelligence Collection System*	1.195	-
Congressional Add: *Thin Film Materials for Advanced Applications*	1.275	-
Congressional Add: *Highly Integrated Optical Interconnects For Adv AI*	0.797	-
Congressional Add: *Advanced Naval Logistics*	2.390	-
Congressional Add Subtotals for Project: 9999	9.322	-
Congressional Add Totals for all Projects	9.322	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 2955: *JEDMICS*	

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
2955: *JEDMICS*	2.817	2.871	2.847	-	2.847	2.893	2.914	2.977	2.987	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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 11 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, Engineering Change Proposal 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 Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: JEDMICS Development	2.774	2.796	2.776
Articles:	0	0	0
Description: Conduct development efforts associated with JEDMICS software releases. 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. These annual releases are necessary to incorporate into JEDMICS changes that are essential to keeping the system running within the Navy's Enterprise. They include Service mandated Information Technology changes, storage capability increases for emerging engineering data formats, changes to accommodate commercial hardware and software end-of-life product obsolescence, and defenses for newly recognized Information Assurance vulnerabilities affecting the systems various software applications.			
FY 2010 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Developed and integrated JEDMICS Software Release 3.11. ***FY 2011 Plans:*** Develop and integrate JEDMICS Software Release 3.12. ***FY 2012 Plans:*** Develop and integrate JEDMICS Software Release 3.13.			
Title: JEDMICS Test	0.025	0.025	0.025
Articles:	0	0	0
Description: Conduct test and readiness reviews and functional performance tests on JEDMICS system. ***FY 2010 Accomplishments:*** FY10: Completed DT of JEDMICS Software Release 3.10. Initiated DT of JEDMICS Software Release 3.11. ***FY 2011 Plans:*** Complete DT of JEDMICS Software Release 3.11. Initiate DT of JEDMICS Software Release 3.12. ***FY 2012 Plans:*** Complete DT of JEDMICS Software Release 3.12. Initiate DT of JEDMICS Software Release 3.13.			
Title: JEDMICS Evaluation & Review	0.018	0.050	0.046
Articles:	0	0	0
Description: Conduct technical evaluations and configuration control reviews of JEDMICS system. ***FY 2010 Accomplishments:*** Conducted technical evaluations and reviews for JEDMICS Software Release 3.12. ***FY 2011 Plans:*** Conduct technical evaluations and reviews for JEDMICS Software Release 3.13. ***FY 2012 Plans:*** Conduct technical evaluations and reviews for JEDMICS Software Release 3.14.			
Accomplishments/Planned Programs Subtotals	2.817	2.871	2.847

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*	**PROJECT** 2955: *JEDMICS*

C. Other Program Funding Summary ($ in Millions)

N/A

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.

E. Performance Metrics

1. Complete testing, integration, & upgrade of three (3) major embedded Commercial Off-the-Shelf (COTS) products.
2. Test & integrate system Information Assurance Vulnerability Management (IAVM) software patch upgrades four (4) times.
3. Complete development, testing, & integration of a minimum twenty (20) corrected high-priority software problem reports.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 2955: *JEDMICS*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	C/IDIQ	Various:Various	0.519	0.154	Oct 2010	0.157	Oct 2011	-		0.157	Continuing	Continuing	Continuing
Software Development	SS/T&M	Northrop Grumman Information:McLean, VA	22.429	2.642	Nov 2010	2.619	Nov 2011	-		2.619	Continuing	Continuing	Continuing
Prior Year Support no Longer Funded in Budget Year or Out years	Various	Various:Various	0.216	-		-		-		-	0.000	0.216	
		Subtotal	23.164	2.796		2.776		-		2.776			

Remarks

Remarks: Funds are for development efforts associated with Commercial Off The Shelf (COTS) obsolescence on the fully deployed COTS Intensive Joint Engineering Data Management Infomation & Control System (JEDMICS). Funds are for COTS evaulation, 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.

SS/Various is a Sole Source - Indefinite Delivery/Requirements contract

NWCF Rate adjustment of $13K could not be taken against NWCF and had to be taken against Software Development contract. (Only $14K of NWCF in the line as shown on R-3 and BOCS exhibits.) The rate adjustment was erroroneously taken against PU 2955. It should have been taken against PU 3225; which, is 100% NWCF and took no rate adjustment.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various:Various	2.395	0.025	Oct 2010	0.025	Oct 2011	-		0.025	Continuing	Continuing	Continuing
		Subtotal	2.395	0.025		0.025		-		0.025			

Remarks

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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 2955: *JEDMICS*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	Various:Various	0.213	0.013	Oct 2010	0.014	Oct 2011	-		0.014	Continuing	Continuing	Continuing
Travel	Various	Various:Various	0.250	0.037	Jul 2011	0.032	Jul 2012	-		0.032	Continuing	Continuing	Continuing
Prior Year Mgmt no Longer Funded in Budget Year or Out years	Various	Various:Various	1.083	-		-		-		-	0.000	1.083	
		Subtotal	1.546	0.050		0.046		-		0.046			

Remarks

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

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	27.105	2.871		2.847		-		2.847			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*	**PROJECT** 2955: *JEDMICS*

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 2955: *JEDMICS*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
JEDMICS				
Aquisition Milestones: Milestones: Milestone C10 (MS C10) Release 3.10	2	2010	2	2010
Aquisition Milestones: Milestones: Milestone C11 (MS C11) Release 3.11	2	2011	2	2011
Aquisition Milestones: Milestones: Milestone C12 (MS C12) Release 3.12	2	2012	2	2012
Aquisition Milestones: Milestones: Milestone C13 (MS C13) Release 3.13	2	2013	2	2013
Aquisition Milestones: Milestones: Milestone C14 (MS C14) Release 3.14	2	2014	2	2014
Aquisition Milestones: Milestones: Milestone C15 (MS C15) Release 3.15	2	2015	2	2015
Aquisition Milestones: Milestones: Milestone C16 (MS C16) Release 3.16	2	2016	2	2016
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.12	4	2010	4	2010
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.13	4	2011	4	2011
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.14	4	2012	4	2012
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.15	4	2013	4	2013
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.16	4	2014	4	2014
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.17	4	2015	4	2015
Aquisition Milestones: Requirements: Service IPT/ECPs: Service IPT/ECPs Release 3.18	4	2016	4	2016
Aquisition Milestones: Contract Award: 2010 Contract Award	1	2010	1	2010
Aquisition Milestones: Contract Award: 2011 Contract Award	1	2011	1	2011

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*	**PROJECT** 2955: *JEDMICS*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Aquisition Milestones: Contract Award: 2012 Contract Award	1	2012	1	2012
Aquisition Milestones: Contract Award: 2013 Contract Award	1	2013	1	2013
Aquisition Milestones: Contract Award: 2014 Contract Award	1	2014	1	2014
Aquisition Milestones: Contract Award: 2015 Contract Award	1	2015	1	2015
Aquisition Milestones: Contract Award: 2016 Contract Award	1	2016	1	2016
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.11	1	2010	3	2010
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.12	1	2011	3	2011
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.13	1	2012	3	2012
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.14	1	2013	3	2013
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.15	1	2014	3	2014
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.16	1	2015	3	2015
Aquisition Milestones: Software & Hardware Evaluation/Integration: Software Hardware Evaluation/Integration Release 3.17	1	2016	3	2016
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.11	3	2010	3	2010
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.12	3	2011	3	2011
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.13	3	2012	3	2012
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.14	3	2013	3	2013
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.15	3	2014	3	2014
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.16	3	2015	3	2015
Test & Evaluation Milestones: Risk Assesment: Risk Assessment Release 3.17	3	2016	3	2016

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 2955: *JEDMICS*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.11	4	2010	4	2010
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.12	4	2011	4	2011
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.13	4	2012	4	2012
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.14	4	2013	4	2013
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.15	4	2014	4	2014
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.16	4	2015	4	2015
Test & Evaluation Milestones: Developmental/Functional Testing: Developmental/ Functional Testing Release 3.17	4	2016	4	2016
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.10	1	2010	1	2010
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.11	4	2010	1	2011
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.12	4	2011	1	2012
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.13	4	2012	1	2013
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.14	4	2013	1	2014
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.15	4	2014	1	2015
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.16	4	2015	1	2016
Test & Evaluation Milestones: Alpha/Beta Testing: Alpha/Beta Testing Release 3.17	4	2016	4	2016
Deliveries: Engineering Change Package: Engineering Change Package Release 3.10	2	2010	2	2010
Deliveries: Engineering Change Package: Engineering Change Package Release 3.11	2	2011	2	2011
Deliveries: Engineering Change Package: Engineering Change Package Release 3.12	2	2012	2	2012
Deliveries: Engineering Change Package: Engineering Change Package Release 3.13	2	2013	2	2013

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*	**PROJECT** 2955: *JEDMICS*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Deliveries: Engineering Change Package: Engineering Change Package Release 3.14	2	2014	2	2014
Deliveries: Engineering Change Package: Engineering Change Package Release 3.15	2	2015	2	2015
Deliveries: Engineering Change Package: Engineering Change Package Release 3.16	2	2016	2	2016

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3223: *Logistics R&D*	

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
3223: *Logistics R&D*	0.875	0.890	0.926	-	0.926	0.924	0.948	0.912	0.928	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Stable annual funding is required to facilitate implementation and execution of a robust, flexible Logistics R&D program that will provide the means for Naval Supply Systems Command (NAVSUP) to effectively pursue solutions to mission-related capability/technology gaps. The NAVSUP Logistics R&D program has an established infrastructure and business process for ensuring that R&D funds are applied to projects that address high priority enterprise needs established in accordance with OPNAV goals and the NAVSUP Commander's Guidance.

From a process perspective, Log R&D investments are governed by a NAVSUP enterprise-wide Executive Steering Group (ESG) chaired by the NAVSUP Vice Commander, and comprised of SES and Command leadership representatives. The ESG ratifies capability/technology gaps identified by all activities within the enterprise, and then assesses and prioritizes all proposed Log R&D initiatives in accordance with their potential for filling the established gap and generating return on investment.

The established Log R&D business management process has currently identified capability/technology gaps in the following general areas: 1) the need to develop technology enhancements promoting the movement of shipboard supply operations ashore, especially as it relates to optimally manned ships, 2) developing and/or modernizing shipboard equipment, material or processes for which NAVSUP exercises Technical Authority, 3) developing and modernizing Information Technology (IT) and Automatic Identification Technology (AIT) applications to enhance performance of supply chain management and logistics functions (e.g., remote diagnostics/ prognostics, in-transit visibility, unique item identification) that are not supported by Navy ERP, and 4) collaborating with acquisition program managers to reduce total ownership costs. This modest R&D investment will establish a NAVSUP Logistics R&D Program to explore additional technologies and significantly increase potential cost savings.

Examples of specific issues/projects that are under consideration for investment of Log R&D funding as a result of the FY10 NAVSUP capability gap and initiative review include: Automated inventory management system; Shipboard ozone laundering; Improved general purpose protective equipment (helmet protection and anti-vibration gloves); Non-plastic waste bags; Counterfeit parts detection methodology; Afloat automatic identification technology architecture.

This list of potential projects for addressing capability gaps will be updated and prioritized over time, under the oversight of the NAVSUP Log R&D ESG, to ensure that funds allocated provide the highest return on investment consistent with Navy/NAVSUP goals and objectives.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Automated Inventory Management System	0.290	0.541	0.564
Articles:	0	0	0

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3223: *Logistics R&D*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: Automated Inventory Management System. Use of commercial warehouse management software and wireless Automatic Identification Technologies (AIT) to streamline afloat supply commodity management on large aviation platforms (CVN/LHA/LHD). Funds to provide initial year of multi-year Integrated Product & Process Development (IPPD) effort. ***FY 2011 Plans:*** Continuation of objectives identified in FY10. ***FY 2012 Plans:*** Continuation of objectives identified in FY10			
Title: Shipboard Ozone Laundering ***Articles:*** ***FY 2010 Accomplishments:*** Shipboard ozone laundering. Development and test of ozone laundering for shipboard use to reduce total operating costs and reduce environmental impact (energy and chemical) usage. ***FY 2011 Plans:*** Continuation of FY10 Plans. ***FY 2012 Plans:*** Continuation of FY10 plans if necessary	0.138 0	0.080 0	0.083 0
Title: Improved General Purpose Protective Equipment ***Articles:*** ***FY 2010 Accomplishments:*** Improved General Purpose Protective Equipment. Develop a helmet for shipboard, facility & aircraft maintenance personnel that incorporates hearing protection, air supply, face protection and a means to communicate; Develop anti-vibration protective gloves for maintenance, repair and construction personnel. Follow-on projects in FY11. ***FY 2011 Plans:*** Continuation of FY10 projects. ***FY 2012 Plans:*** Continuation of FY10 projects if necessary.	0.089 0	0.052 0	0.054 0
Title: Non-Plastic Waste Bags ***Articles:***	0.134 0	0.083 0	0.086 0

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3223: *Logistics R&D*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: Non-plastic waste bags. Develop an alternative to plastic trash bags with similar performance characteristics, yet not containing plastic, in order to decrease the amount of plastic waste required to be processed aboard Navy vessels. ***FY 2011 Plans:*** Continuation of FY10 Projects. ***FY 2012 Plans:*** Continuation of FY10 Projects if necessary.			
Title: Counterfeit Parts Detection Methodology	0.112	0.067	0.070
Articles:	0	0	0
FY 2010 Accomplishments: Counterfeit parts detection methodology. Develop a methodology utilizing existing databases and tools for the detection and mitigation of counterfeit parts in the naval aircraft supply chain. Mitigating counterfeit parts will reduce maintenance and AVDLR costs, while improving safety. ***FY 2011 Plans:*** Continuation of FY10 Projects. ***FY 2012 Plans:*** Continuation of FY10 Projects if necessary.			
Title: Afloat Automatic Identification Technology Architecture	0.112	0.067	0.069
Articles:	0	0	0
FY 2010 Accomplishments: Afloat Automatic Identification Technology architecture. Establish an afloat AIT architecture that parallels the ashore solution and provides better visibility and reduces shipboard manning requirements. Funds to provide initial year of multi-year Integrated Product & Process Development (IPPD) effort. ***FY 2011 Plans:*** Continuation of FY10 projects. ***FY 2012 Plans:*** Continuation of FY10 Projects if necessary			
Accomplishments/Planned Programs Subtotals	0.875	0.890	0.926

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3223: *Logistics R&D*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The acquisition strategy for each individual sub-project (below) has not yet been determined and will be determined during FY10.

Automated Inventory Management System: Use of commercial warehouse management software and wireless Automatic Identification Technologies (AIT) to streamline afloat supply commodity management on large aviation platforms (CVN/LHA/LHD). Funds to provide initial year of multi-year Integrated Product & Process Development (IPPD) effort.

Shipboard Ozone Laundering: Development and test of ozone laundering for shipboard use to reduce total operating costs and reduce environmental impact (energy and chemical) usage.

Improved General Purpose Protective Equipment: Develop a helmet for shipboard, facility & aircraft maintenance personnel that incorporates hearing protection, air supply, face protection and a means to communicate; Develop anti-vibration protective gloves for maintenance, repair and construction personnel.

Non-Plastic Waste Bags: Develop an alternative to plastic trash bags with similar performance characteristics, yet not containing plastic, in order to decrease the amount of plastic waste required to be processed aboard Navy vessels.

Counterfeit Parts Detection Methodology: Develop a methodology utilizing existing databases and tools for the detection and mitigation of counterfeit parts in the naval aircraft supply chain. Mitigating counterfeit parts will reduce maintenance and AVDLR costs, while improving safety.

Afloat Automatic Identification Technology Architecture: Establish an afloat AIT architecture that parallels the ashore solution and provides better visibility and reduces shipboard manning requirements. Funds to provide initial year of multi-year Integrated Product & Process Development (IPPD) effort.

E. Performance Metrics

TBD

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3225: *Ordnance PHST*	

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
3225: *Ordnance PHST*	0.386	0.378	0.364	-	0.364	-	-	-	-	0.000	1.128
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Ordnance Packaging Handling Storage and Transportation (PHST) RDT&E resources focus on developing new Ordnance Handling Equipment (OHE) to replace the 25+ year old equipment presently used by the Fleet for Underway Replenishment (UNREP) operations. This OHE is a high cost and maintenance item. Development of new OHE takes advantage of new technology such as the CH-60 helicopter, which has double the lift capacity of the CH-46. OHE is used daily by the war fighter to conduct Connected Replenishment (CONREP) and Vertical Replenishment (VERTREP). A sample of these efforts includes redesigning the MK 105 sling to increase efficiency during VERTREP, condensing entire families of slings down to fewer and more efficient pieces of gear, developing a stream strongback and the associated equipment necessary to complement, not compromise, the Heavy Underway Replenishment (UNREP) initiative of the future, etc. The new sling designs being developed take advantage of present and future manufacturing and operational capabilities. This initiative improves availability, reliability, and maintainability while reducing overall cost. The end result will be a Fleet that has been properly equipped to conduct UNREP with more efficiency.

The PHST Center is developing a baseline of the current naval ordnance PHST logistics system. This baseline will identify inefficiencies and recommend hardware and operational enhancements in the area of modal change, thus providing an investment strategy for future Naval PHST operations by conducting an end-to-end study.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Ordnance PHST Development	0.386	0.378	0.364
Articles:	0	0	0
Description: Develop new Ordnance Handling Equipment (OHE) to replace the 25+ year old equipment presently in Fleet use to include: 1) Re-design Mk 105 Pendant Sling to optimize cost and throughput during Vertical Replenishment; 2) New concept development to replace 12x12 and 14x14 ft. Nylon Cargo Nets ; 3) Design a new STREAM Strongback to compliment the Fleet's Heavy UNREP initiative of the future; 4) Condense Mk 85, 86, 87, and 100 family of pallet slings into fewer pieces gear to optimize cost and efficiency during CONREP; and 5) Re-design the Mk 45 Handlift Truck. Ordnance Packaging Handling Storage and Transportation (PHST) will additionally conduct a baseline study of the current Naval PHST logistics system to identify inefficiencies and recommend hardware and operational enhancements.			
FY 2010 Accomplishments: Developed new MK-105 Pendant Sling. Developed 8X8, 12X12, and 14X14 ordnance specific nylon cargo nets. Began baseline work on current PHST Logistics Study, Began redesign of MK-45 Handlift Truck.			
FY 2011 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 3225: *Ordnance PHST*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Design new Heavy Lift Stream Strongback. Condense MK-85 Series Pallet Slings to fewer pieces. Complete redesign of MK-45 Handlift Truck. Develop recommended list of hardware and operational enhancements from Baseline Logistics Study. ***FY 2012 Plans:*** Begin investigating the Mk 24/137 LAMPS Dolly. Field test a new Mk 105 replacement. Work on potential improvements cited in the PHST baseline study. Develop a Mk 85 series replacement. Evaluate a course of action for the heavy Standard Tension Replenishment Alongside Method (STREAM) strongback. A heavy STREAM strongback is a metal rigid item with a 12,000 lb capacity that acts as an intermediate to a ship's STREAM and other handling equipment and provides a means for attaching handling equipment during loading/offloading or connected transfer-at-sea operations.			
Accomplishments/Planned Programs Subtotals	0.386	0.378	0.364

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Execution of in-house engineering, design, development and test efforts. Performance-based reviews conducted quarterly or as required by the Project Management Office.

E. Performance Metrics

1. Conduct Operational Testing (OT) of a Mk 105 Sling Replacement
2. Improve 4 of the 8 areas of concern from the PHST Baseline Study
3. Identify 3 problem areas inherent in the Mk 24/137 LAMPS Dolly design
4. Conduct a successful Preliminary Design Review (PDR) for a Mk 85 Series sling replacement

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603739N: *Navy Logistic Productivity*	PROJECT 9999: *Congressional Adds*	

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: *Congressional Adds*	9.322	-	-	-	-	-	-	-	-	0.000	9.322
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: Hawaii National Guard Integrated Information Command System ***FY 2010 Accomplishments:*** Provide relevant, real-time situational information to all levels of command from the Hawaii National Guard to Hawaii State Civil Defense to civilian responders in the field.	1.275	-
Congressional Add: Photonic Integration Foundry ***FY 2010 Accomplishments:*** Develop enabling photonic integrated circuit technologies required for next generation Navy avionics.	2.390	-
Congressional Add: Real-time Tactical Intelligence Collection System ***FY 2010 Accomplishments:*** Improve existing language translation equipment by adding larger vocabularies and more translation capability.	1.195	-
Congressional Add: Thin Film Materials for Advanced Applications ***FY 2010 Accomplishments:*** Continued development of X-ray Lithography (XRL) / Collimated Plasma Lithography (CPL) mask materials/technology.	1.275	-
Congressional Add: Highly Integrated Optical Interconnects For Adv AI ***FY 2010 Accomplishments:*** Continue to develop optical interconnects integrated into printed circuit boards typically used by the electronics industry.	0.797	-
Congressional Add: Advanced Naval Logistics ***FY 2010 Accomplishments:*** Continued implementation within Navy ERP framework and addressing additional, previously unidentified capabilities requirements. Investigation of applicability of this tool as a standard requirements determination approach for all DOD Services.	2.390	-
Congressional Adds Subtotals	9.322	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603739N: *Navy Logistic Productivity*	**PROJECT** 9999: *Congressional Adds*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Not required for Congressional Adds

E. Performance Metrics

Not required for Congressional Adds