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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Defense Logistics Agency **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603712S: <i>Logistics Research and Development Technology (Log R&D)</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	72.541	51.851	20.542	0.000	20.542	20.933	21.143	21.555	21.840	Continuing	Continuing
1: <i>Medical Logistics Network (MLN)</i>	2.864	2.628	2.837	0.000	2.837	2.880	2.920	2.970	3.020	Continuing	Continuing
2: <i>Weapon System Sustainment (WSS)</i>	5.400	5.214	5.637	0.000	5.637	5.729	5.804	5.903	6.005	Continuing	Continuing
3: <i>Supply Chain Management (SCM)</i>	3.067	2.660	3.005	0.000	3.005	3.108	3.080	3.201	3.189	Continuing	Continuing
4: <i>Strategic Distribution & Reutilization (SDR)</i>	3.440	3.309	3.601	0.000	3.601	3.684	3.750	3.815	3.881	Continuing	Continuing
5: <i>Energy Readiness Program (ERP)</i>	1.691	2.016	2.179	0.000	2.179	2.215	2.243	2.282	2.322	Continuing	Continuing
6 : <i>Defense Logistics Information Research (DLIR)</i>	0.271	2.135	2.304	0.000	2.304	2.341	2.373	2.414	2.456	Continuing	Continuing
7: <i>Tent Network for Technology Implementation (TENTNET)</i>	0.000	0.982	0.979	0.000	0.979	0.976	0.973	0.970	0.967	Continuing	Continuing
8: <i>Other Congressional Adds (OCAs)</i>	55.808	32.907	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The central idea of the Focused Logistics Joint Functional Concept “is to build sufficient capacity into the sustainment pipeline, exercise sufficient control over the pipeline from end to end, and provide a high degree of certainty to the supported joint force commander that sustainment, and support will arrive where needed and on time.” The Defense Logistics Agency (DLA) Research and Development (R&D) program helps achieve this vision by pioneering advanced logistics concepts and business processes that provides the leanest possible infrastructure, the use of the best commercial and government sources, and the application of business practices. The Logistics R&D program develops and demonstrates high risk, high payoff technology that will provide a significantly higher level of support at lower costs, than would be otherwise attainable. The program has a proven track record of implementation and benefits. One example is the Department of Defense (DoD)

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0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i>	PE 0603712S: <i>Logistics Research and Development Technology (Log R&D)</i>
BA 3: <i>Advanced Technology Development (ATD)</i>	

Electronic MALL (EMALL). DoD EMALL was the first web based, distributed architecture on-line ordering capability. It has been adopted by the Army, Navy and the Department of Homeland Security. DLA's overall Log R&D program has demonstrated positive net present value and a positive return on investment.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	76.135	19.043	0.000	0.000	0.000
Current President's Budget	72.541	51.851	20.542	0.000	20.542
Total Adjustments	-3.594	32.808	20.542	0.000	20.542
• Congressional General Reductions		-0.173			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		33.080			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-1.004	0.000			
• SBIR/STTR Transfer	-2.590	0.000			
• FY 2011 Other Program Changes	0.000	0.000	20.542	0.000	20.542
• FY 2010 Economic Assumptions	0.000	-0.008	0.000	0.000	0.000
• FY 2010 Federally Funded and Development Center Reduction	0.000	-0.091	0.000	0.000	0.000

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

Project: 8: *Other Congressional Adds (OCAs)*

	<u>FY 2009</u>	<u>FY 2010</u>
Congressional Add: <i>Advanced Mobile Microgrid</i>	2.713	0.000
Congressional Add: <i>Aging Systems Sustainment and Enabling</i>	1.995	2.387
Congressional Add: <i>Alternative Energy from Organic Sources</i>	5.984	5.969
Congressional Add: <i>Biofuels Program</i>	1.596	1.592
Congressional Add: <i>Commodity Management System Consolidation</i>	1.596	1.592
Congressional Add: <i>Connectory Expansion for Rapid Identification of Technology Sources for DoD</i>	0.399	0.000
	3.191	3.183

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BA 3: <i>Advanced Technology Development (ATD)</i>	

Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2009	FY 2010
Congressional Add: <i>Continuous Acquisition and Lifecycle and Integrated Data Environment and Defense Logistics Enterprise Services Program</i>		
Congressional Add: <i>Defense Fuelcell Locomotive</i>	1.995	2.387
Congressional Add: <i>Emerging Critical Interconnection Technology</i>	1.995	0.000
Congressional Add: <i>Energy Strategy for the Department of Defense</i>	19.943	0.000
Congressional Add: <i>Florida Defense Manufacturing Supply</i>	1.995	0.000
Congressional Add: <i>High Pressure Mobile Water Delivery System</i>	0.000	0.000
Congressional Add: <i>New England Defense Manufacturing Supply Chain Institute</i>	0.798	0.000
Congressional Add: <i>On-Site Alternative Fuel Manufacturing System</i>	1.197	0.000
Congressional Add: <i>Reliability Testing of Lead Free Circular Components</i>	1.436	0.000
Congressional Add: <i>Smart Modular Regenerative Off-Grid Hydrogen Fuel Cell</i>	0.997	0.000
Congressional Add: <i>Vehicle Fuel Cell and Hydrogen Logistics Program</i>	7.978	6.366
Congressional Add: <i>Progressive Research for Sustainable Manufacturing</i>	0.000	1.194
Congressional Add: <i>Reduced Cost Supply Readiness</i>	0.000	1.194
Congressional Add: <i>Cellulosic-Derived Biofuels Research</i>	0.000	2.387
Congressional Add: <i>Fuel Cell Hybrid Battery Manufacturing for Defense Operations</i>	0.000	0.796
Congressional Add: <i>Next Generation Manufacturing Technologies Initiative</i>	0.000	1.592
Congressional Add: <i>Woody Biomass Conversion for JP-8 Fuel</i>	0.000	1.273
Congressional Add: <i>Radio Frequency Identification Technologies</i>	0.000	0.995
Congressional Add Subtotals for Project: 8	55.808	32.907
Congressional Add Totals for all Projects	55.808	32.907

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Change Summary Explanation

FY 2009 Economic Assumptions: \$.206M

FY 2009 Reprogram High Pressure Mobile Water Delivery System to the United States Army Tank Automotive Research, Development, and Engineering Center (TARDEC): \$.798M.

FY 2010 Total Economic Assumptions: \$.022M

FY 2010 Total Federally Funded Research and Development Center Reduction: \$.250M

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics Agency								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603712S: <i>Logistics Research and Development Technology (Log R&D)</i>				PROJECT 1: <i>Medical Logistics Network (MLN)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
1: <i>Medical Logistics Network (MLN)</i>	2.864	2.628	2.837	0.000	2.837	2.880	2.920	2.970	3.020	Continuing	Continuing

A. Mission Description and Budget Item Justification

Defense Medical Logistics Transformation (DMLT) provides a comprehensive, standardized, unified, and policy compliant enterprise architecture, plan and implementation of initiatives to further unify the Medical Logistics Enterprise. The medical logistics community requires a multi-organizational, multi-disciplinary approach to future healthcare supply that spans the military services, the Office of the Secretary of Defense, our coalition partners, and commercial industry and involves diverse, yet complimentary functional disciplines such as cost estimating/financial management, system architecture and design, functional process mapping, transportation, telecommunication, networking, program management, contracting, engineering, and supply chain management.

Netcentric Infrastructure and Implementation (NII) The Netcentric Infrastructure and Implementation initiative will provide DoD Medical enterprise with a .NET web service provisioning framework based on Service-Oriented Architecture. A services-based information environment extends effectively to the outer reaches of the network, and allows the timely exchange of data among the various business systems and databases in an efficient and effective manner. Authoritative data sources distributed throughout the Enterprise can be leveraged, and unnecessary replication of data repositories will be reduced. Data services will reach a broader customer base compared to current technical solutions because data access will no longer be limited to the capabilities that are under direct command; rather, the partnering systems will benefit from a global, trusted, and reliable network. Adherence to the guidelines of Netcentric Operations will limit ad hoc design, discourage stove-pipe development, and reduce the development lifecycle. Metrics will provide feedback on value added and support the identification of further enhancement of this capability.

Controlled Room Temperature Cold Chain Packaging Protocol Development: DLA purchases a large variety of pharmaceutical products requiring special environmental handling from distributor to the battlefield. This project developed a pilot protocol to control packaging and shipping conditions for these medical items. Examples of these products are Tami Flu and Nerve Agent Antidote Auto-Injectors. These procedures will ensure that medical items reach the Warfighter in useable condition.

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

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
2: <i>Weapon System Sustainment (WSS)</i>	5.400	5.214	5.637	0.000	5.637	5.729	5.804	5.903	6.005	Continuing	Continuing

A. Mission Description and Budget Item Justification

Support Defense Logistics Agency (DLA) Strategic Plans Goals 1.) Warfighter Support) and 2.) Internal Process. The program spans multiple weapon systems and supply chains to improve internal processes, provide new methods, reduce costs and lead times, and ultimately, improve readiness for DLA customers.

The program is focused in three initiatives:

- 1.) Planning Process Improvement: The program improves elements of current inventory policy models, assesses potential benefits of new technologies and seeks more efficient approaches to deliver customer requirements while reducing inventory and order fulfillment costs.
- 2.) Technical/Quality Process Improvement: The program improves internal efficiency and customer satisfaction through new tools and methods to proactively address supply issues resulting from current technical/quality processes.
- 3.) Procurement Process Improvement: The program will demonstrate tailored data collection and business processes for well-defined subsets of suppliers and procurement types to improve supplier responsiveness, cycle time and cost.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Weapon System Sustainment Accomplishments/Plans	5.400	5.214	5.637	0.000	5.637
<p><i>FY 2009 Accomplishments:</i></p> <p>Planning Process Improvement: Projects in this area focus on producing new capabilities which, when implemented, will improve perfect order fulfillment while reducing inventory cost and procurement workload. Accomplishments in this area were led by continued support to DLA efforts to implement the WSSP-developed peak policy and matching economic retention rules. These included establishing peak policies for eight weapon systems and analyses to answer questions raised by the process owner. A companion project to automate the process of setting peak policies, which today requires extensive effort by personnel with specialized skills, was continued and is on track for successful completion in early FY 2010. Effort continued to mature the next generation inventory</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
in FY2010 will be completed to understand issues with receipt and destination acceptance for Direct Vendor Delivery (DVD) and Industrial Product-Support Vendor (IPV) shipments as they impact DoD's ability to correctly pay supplier invoices and recommend alternatives to address those issues. A follow-on pilot project will be initiated to validate the recommendations and prove their benefits as the first step in transitioning the results into daily use. New FY 2011 projects in the procurement process area will be initiated as a result of problem definition efforts undertaken with the procurement process team in FY 2010 and early FY 2011.								
Accomplishments/Planned Programs Subtotals				5.400	5.214	5.637	0.000	5.637
C. Other Program Funding Summary (\$ in Millions) N/A								
D. Acquisition Strategy N/A								
E. Performance Metrics The metric is percent of completing demonstration projects transitioning per year. In FY 2009, nine demonstration projects were completed, and eight transitioned.								

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
3: <i>Supply Chain Management (SCM)</i>	3.067	2.660	3.005	0.000	3.005	3.108	3.080	3.201	3.189	Continuing	Continuing

A. Mission Description and Budget Item Justification

DLA has organized along Supply Chains to provide an integrated, combat logistics solution that is coordinated among the services and across DoD. There is a need for the Agency to stay abreast of the latest supply chain management principals and techniques that will improve the supply availability of DLA managed items by managing supply chains to shorten lead times and reduce costs. The dynamic nature of DLA's mission requires a flexible R&D mechanism to rapidly take advantage of the evolving supply chain improvements and innovations.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Supply Chain Management Accomplishments/Plans	3.067	2.660	3.005	0.000	3.005
<p><i>FY 2009 Accomplishments:</i></p> <p>1.) DLA Land weapon systems supply chain, in conjunction with the USMC Light Armored Vehicle (LAV) Program Manager, developed the first version of a broad-based, forward-looking analytic tool based on parametric search methods; 26 triggers have been identified that would indicate when parts might have a high risk of becoming problems of supply. These parts are then reviewed and prioritized by DLA and LAV for potential support solutions. 2.) Surge Manufacturing Optimization Project. This project will demonstrate and document the increased surge capacities and reductions in manufacturing costs that can be achieved by replacing industry standard methods with equipment fully designed for integrated use. It will also determine the ROI for full roll-out under various surge scenarios.</p> <p><i>FY 2010 Plans:</i></p> <p>High power microwave tubes are used in military radar, communications, and other electronic warfare systems such as Aegis, Patriot, Harpoon, Phalanx, Advanced Medium Range Air to Air Missile (AMRAMM), Airborne Warning and Control System (AWACS), Standard Missile, and Lantirn. DLA</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>must continue to support legacy systems and new systems that are being deployed with these components. There are only a handful of U.S. based microwave tube manufacturers. These companies make specialized products while relying on a supply base that is aging and becoming increasingly risky. A survey of 10 selected tubes indicates that backorder quantities grew from under 20 in 2004 to over 1200 in FY 2008. This initiative will conduct several pilot projects to improve critical manufacturing processes.</p> <p><i>FY 2011 Base Plans:</i> Microwave tube project will continue with efforts focused on increased first time yields and improved process documentation and process optimization.</p>								
Accomplishments/Planned Programs Subtotals				3.067	2.660	3.005	0.000	3.005
C. Other Program Funding Summary (\$ in Millions)								
N/A								
D. Acquisition Strategy								
Competitive Broad Area Announcement.								
E. Performance Metrics								
Backorder reduction.								

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
4: <i>Strategic Distribution & Reutilization (SDR)</i>	3.440	3.309	3.601	0.000	3.601	3.684	3.750	3.815	3.881	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program consists of two thrusts: improvements and extensions to DLA distribution capabilities—especially for deployed warfighters—and technology insertions to enhance DLA’s reutilization, de-militarization, and disposal capabilities. The distribution focus is on quickly establishing distribution operations in new theaters of operation, cutting customer wait time and reducing demands on strategic airlift. The reutilization focus is on reducing risks that militarily-sensitive equipment will be sold to potential enemies or other parties that could use the surplus material for nefarious purposes. Transition organizations are DLA’s Defense Distribution Center (DDC) and Defense Reutilization and Marketing Service (DRMS).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Strategic Distribution & Reutilization (SDR) Accomplishments / Planned Program	3.440	3.309	3.601	0.000	3.601
<p><i>FY 2009 Accomplishments:</i> Supported transition of Node Management & Deployable Depot (NoMaDD) Advanced Concept Technology Demonstration (ACTD) capabilities, including completion of Node Management development, CONOPS, and assessments. Demonstrated baseline Expeditionary Depot/Defense Reutilization and Marketing Office (DRMO) interoperability during TALISMAN SABER '09 field exercise, identifying gaps and seams in respective DDC and DRMS systems, CONOPS, and Information Technology systems. Analyzed Expeditionary Depot stock planning processes, revealing inter-Service/Agency process and system gaps and seams. Identified the Integrated Consumable Item Support (ICIS) system as project transition/implementation path. Launched the Humanitarian Assistance/Disaster Relief Asset Visibility Experiment (HAVE) to eliminate Expeditionary Depot capability gaps identified during its deployment following Hurricane Ike.</p>					

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C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
5: <i>Energy Readiness Program (ERP)</i>	1.691	2.016	2.179	0.000	2.179	2.215	2.243	2.282	2.322	Continuing	Continuing

A. Mission Description and Budget Item Justification

Program Management Office Support (PMO) for developing program strategies and goals, preparing documentation for the program, and performing quick reaction studies and analysis. Alternate Energy Development (AED) to include synthetic fuel specifications and acquisition plan; renewable fuels studies and planning, continued study of the use of hydrogen by DoD, and other directives specified in the Energy Policy Act (EPA) of 2005. Testing and approving of additional +100 Thermal Stability Additives (TSA) for use in Jet Propulsion Fuel (JP-8), and additional additive studies for +100 Low Temperature and Static Dissipater. Study and implementation of Automated Information and Data Collection (AIDC) to Defense Energy Supply Center (DESC) business processes, and automated adaptive planning tool to optimize the class III supply chain.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Energy Readiness Program (ERP) Accomplishments/Plans	1.691	2.016	2.179	0.000	2.179
<p><i>FY 2009 Accomplishments:</i> Continued PMO support in program implementation and planning (\$.220 PMO), Alternative Fuel Engine Test (\$.7 AFE), Cold Weather Biodiesel Additive Project (\$.069 CWB), Continued support of testing and approval of additional +100 Thermal Stability Additives (\$.025 TSA), FAME Cross Contamination Project (.085 FCC), Congressional Studies (.529 CMS).</p> <p><i>FY 2010 Plans:</i> Continued PMO support in program implementation and planning (\$.25 PMO), Continued Alternative Fuel Test support (\$.2 AFE), San Pedro Net-Zero Plus initiative to assess/establish a net-zero energy defense fuel support point (\$.200 AED), RP-2 Qualification (.2 R2Q), Continued support of FAME Cross Contamination Project (.1 FCC), Continued support of testing and approval of additional +100 Thermal Stability Additives (\$.350 TSA).</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2011 Base Plans:</i> Continued PMO support in program implementation and planning (\$.250 PMO), Continued support of Alternative studies and testing (\$.5 AED), San Pedro Net-Zero Plus initiative to assess/establish a net-zero energy defense fuel support point (\$.500 AED), Continued support of testing and approval of additional +100 Thermal Stability Additives (\$.300 TSA).								
Accomplishments/Planned Programs Subtotals				1.691	2.016	2.179	0.000	2.179
C. Other Program Funding Summary (\$ in Millions) N/A								
D. Acquisition Strategy N/A								
E. Performance Metrics Successful program documentation and support to include timely budget delivery and programmatic details (PMO). Successful identification of alternative drop-in replacement fuels suitable for further testing and certification (AFE). Successful incorporation of alternative fuel use (wind, solar, geothermal, hydrogen, waste-to-fuel) at the defense activities (AED). Successful qualification of RP-2 (R2Q). Successful completion of testing additional +100LT Thermal Stability Additives and incorporation into MILSPEC (TSA). Identification of risk for FAME contamination in Jet Fuel and methods for measuring FAME contamination (FCC).								

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
6 : <i>Defense Logistics Information Research (DLIR)</i>	0.271	2.135	2.304	0.000	2.304	2.341	2.373	2.414	2.456	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Logistics Information Research (DLIR) program objective is to research, identify, and implement potential or existing technologies using high-risk, high-payoff tools, methods, techniques, and products. The DLIR program partners with commercial industry to perform short-term projects (STPs) in various logistics business areas which align with the Defense Logistics Agency's (DLA's) strategic vision. DLIR improves functional and business processes using the latest technologies available, which support the nation's warfighter. The technical areas of interest are:

- 1.) Development of Logistics Data Interoperability & Availability. Enhances the functionality and compatibility of data in a complex data environment using supply chain relationships and lifecycle management to allow flexible visibility.
- 2.) Next Generation Automated Electronic Commerce and Sourcing. The Next Generation Automated Electronic Commerce and Sourcing technical area of interest focuses on employing the best of breed processes, practices, and technology to enable and/or streamline electronic commerce from the customer's point-of-need to point-of-satisfaction.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Defense Logistics Information Research (DLIR) Accomplishments/Plans	0.271	2.135	2.304	0.000	2.304
<p><i>FY 2009 Accomplishments:</i> Broad Agency Announcement released August 2008 – received 56 proposals against two technical areas of interests. Source selection board reviewed and forwarded eleven proposals for contract award to DSCP. DLIR R&D efforts in closing out FY 2007 and FY 2008 contracts; finalizing invoicing.</p> <p>DLIS continues to research industries cutting edge technology to improve and integrate logistics data management and information technology, into a broad array of data systems, data products and related services for the warfighter. DLIS provides life cycle supply item information for logistics processes from initial entry into the DoD supply chain through final disposal. DLIS uses its Information</p>					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Chain with its commercial and government processes by integrating those data systems and processes together. <i>FY 2011 Base Plans:</i> Release a Broad Agency announcement (BAA); anticipate receiving 59-75 proposals for source selection review and expect 3-4 contract awards as a result of the BAA.						
Accomplishments/Planned Programs Subtotals		0.271	2.135	2.304	0.000	2.304
C. Other Program Funding Summary (\$ in Millions) N/A						
D. Acquisition Strategy N/A						
E. Performance Metrics N/A						

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics Agency								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>			R-1 ITEM NOMENCLATURE PE 0603712S: <i>Logistics Research and Development Technology (Log R&D)</i>				PROJECT 7: <i>Tent Network for Technology Implementation (TENTNET)</i>				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
<i>7: Tent Network for Technology Implementation (TENTNET)</i>	0.000	0.982	0.979	0.000	0.979	0.976	0.973	0.970	0.967	Continuing	Continuing

A. Mission Description and Budget Item Justification

The purpose of the TENTNET program is to significantly improve supply chain surge capabilities for military tent requirements. The program is building a community of practice amongst DLA/DSCP, academia, and industry to help identify supply chain bottlenecks and structure short term R&D projects to address these bottlenecks.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
TENTNET Accomplishments/Plans	0.000	0.982	0.979	0.000	0.979
<p><i>FY 2010 Plans:</i></p> <p>New Starts:</p> <p>Shop Floor Automation: This project will demonstrate and document the increased surge capacities and reductions in manufacturing costs that can be achieved by introducing automated seam-welding and material handling equipment into key bottleneck areas in the tent manufacturing process. It will also determine the ROI for full roll-out under various surge scenarios.</p> <p>E-Mall Access for TENTNET: This project will make it possible for MilSpec Tent information to be available to all EMALL users. It will expand the number of tent and shelter products that have rich technical and performance information available on DoD EMALL. The project is structured to benefit the entire tent manufacturing community by making their product more visible and, more importantly, it will improve the quality of product information available to the warfighter.</p> <p>Extension of Supply Chain Simulation project: This represents additional tasking for an existing project. The project will simulate the capability of the tent supply chain to surge production under varying conditions and requirements. We expect this project to produce an effective decision making</p>					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>tool for DLA's Industrial Capabilities Programs allowing program management to evaluate the effect of placing buffer stocks at various levels within the supply chain.</p> <p><i>FY 2011 Base Plans:</i></p> <p>Shop Floor Automation: This project will demonstrate and document the increased surge capacities and reductions in manufacturing costs that can be achieved by introducing automated seam-welding and material handling equipment into key bottleneck areas in the tent manufacturing process. It will also determine the ROI for full roll-out under various surge scenarios.</p> <p>E-Mall Access for TENTNET: This project will make it possible for MilSpec Tent information to be available to all EMALL users. It will expand the number of tent and shelter products that have rich technical and performance information available on DoD EMALL. The project is structured to benefit the entire tent manufacturing community by making their product more visible and, more importantly, it will improve the quality of product information available to the warfighter.</p> <p>Extension of Supply Chain Simulation project: This represents additional tasking for an existing project. The project will simulate the capability of the tent supply chain to surge production under varying conditions and requirements. We expect this project to produce an effective decision making tool for DLA's Industrial Capabilities Programs allowing program management to evaluate the effect of placing buffer stocks at various levels within the supply chain.</p>						
Accomplishments/Planned Programs Subtotals		0.000	0.982	0.979	0.000	0.979
C. Other Program Funding Summary (\$ in Millions)						
N/A						
D. Acquisition Strategy						
N/A						

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E. Performance Metrics

The goal of the program is to transition positive project results to industry, assuming there is a credible business case to do so. With this goal in mind, each STP team will develop a set of key performance parameters (KPPs) at the onset of the project – the KPPs will be used to measure the success of the technology or process improvement involved.

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
8: <i>Other Congressional Adds (OCAs)</i>	55.808	32.907	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Logistics Research and Development Technology Demonstration program overseas the management of Congressional Add programs assigned to the Defense Logistics Agency.

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

	FY 2009	FY 2010
Congressional Add: Advanced Mobile Microgrid <i>FY 2009 Accomplishments:</i> The objectives of this program are to field and demonstrate mature alternative/renewable energy/ power generation and distribution technology with a “sense of urgency” through participation in the Advanced Concept/Joint Concept Technology Demonstrations (AC/JCTD) process and to develop Defense Logistics Agency (DLA)/Defense Energy Support Center (DESC) Overseas Contingency Operations (OCO) and transition strategy for alternative/renewable energy and power technologies.	2.713	0.000
Congressional Add: Aging Systems Sustainment and Enabling <i>FY 2009 Accomplishments:</i> This program has been in operation with congressional funding since 1994. It’s current objectives are to: expand the industrial supply base in the Oklahoma area, identify, nurture and certify companies to participate in the procurement processes through their electronic Virtual Enterprise Development (VED) - of which, 65% are registered as 8A, minority owned, veteran owned, or Hub Zone, and	1.995	2.387

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
to introduce technology applications and product enhancements through reverse engineering or redesign. <i>FY 2010 Plans:</i> To be determined.		
Congressional Add: Alternative Energy from Organic Sources <i>FY 2009 Accomplishments:</i> The objective of this program is to evaluate an old technology using new advances in genetic engineering; this process stimulates various strains of algae to produce oil from carbohydrates as a renewable alternative to petroleum in the refining of diesel and jet fuel. <i>FY 2010 Plans:</i> To be determined.	5.984	5.969
Congressional Add: Biofuels Program <i>FY 2009 Accomplishments:</i> The objective of this program is to develop advanced biofuel blends from biomass feed stocks to replace JP-8 fuels. <i>FY 2010 Plans:</i> To be determined.	1.596	1.592
Congressional Add: Commodity Management System Consolidation	1.596	1.592

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
<p><i>FY 2009 Accomplishments:</i> The objective of this program is to provide a flexible tool to optimize Depot part ordering while improving knowledge management via collection of Point-of-Use data.</p> <p><i>FY 2010 Plans:</i> To be determined.</p>		
<p>Congressional Add: Connectory Expansion for Rapid Identification of Technology Sources for DoD</p> <p><i>FY 2009 Accomplishments:</i> The objective of this program is to maintain/develop a continuous sourcing tool for a wide range of backorder/parts manufacturers, Diminishing Manufacturing Source Material Shortage (DMSMS), and market/technology assessments.</p>	0.399	0.000
<p>Congressional Add: Continuous Acquisition and Lifecycle and Integrated Data Environment and Defense Logistics Enterprise Services Program</p> <p><i>FY 2009 Accomplishments:</i> This program is a group of projects designed to promote information technology as a key element in achieving war fighter superiority in the 21st century. Objectives include: supporting the warfighter and Overseas Contingency Operations (OCO) with customs clearance of Department of Defense (DoD) shipments, developing Government Industry Data Exchange Program (GIDEP) Next Generation System focused on the Diminishing Manufacturing Source and Material Shortage (DMSMS) centralized database, logistics transformation and nanotechnology.</p> <p><i>FY 2010 Plans:</i> To be determined.</p>	3.191	3.183
	1.995	2.387

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
Congressional Add: Defense Fuelcell Locomotive <i>FY 2009 Accomplishments:</i> This program is a continuation of Fuel Cell Locomotive work to build, evaluate and report on the performance of a hybrid fuel cell locomotive using the design previously worked under FY 2007 funding. Funding is being applied to complete the integration of a fuel cell switcher locomotive by installing a 350 bar composite wrapped compressed hydrogen storage system, a Direct Current (DC) to DC electric converter to provide necessary voltage requirements for onboard equipment and a power to grid processing unit to conduct testing. Accomplishments to date include systems designed and largely built with current work focusing on system testing and integration. <i>FY 2010 Plans:</i> To be determined.		
Congressional Add: Emerging Critical Interconnection Technology <i>FY 2009 Accomplishments:</i> The objectives of this program are to assist North American printed circuit board (PrCB) technical and manufacturing interests in meeting current and future DOD Warfighter needs and to establish a technology transition program between the DOD Naval Seas Systems Command at Crane, Indiana (NAVSEA) and domestic industry participants supporting future DOD needs. Accomplishments to date include: Emulator demonstration project, training development, and solder-less assembly project.	1.995	0.000
Congressional Add: Energy Strategy for the Department of Defense <i>FY 2009 Accomplishments:</i> The objective of this program is to advance the state of knowledge of Carbon Capture and Sequestration (CCS) technology associated with the conversion of carbonaceous resources into liquid fuels for DOD.	19.943	0.000

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
Congressional Add: Florida Defense Manufacturing Supply <i>FY 2009 Accomplishments:</i> The purpose of this program is to leverage existing industrial capacity in Florida, as well as Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, to address Warfighter requirements for machined parts by developing methodologies to resolve parts shortages, surge demand, sustainment and obsolescence.	1.995	0.000
Congressional Add: High Pressure Mobile Water Delivery System <i>FY 2009 Accomplishments:</i> This project involves research, development, testing and evaluation of a high pressure mobile water delivery system, performing the engineering integration and prototyping of the system for defense wide applications. This system is capable of serving multiple functions for military ground operations, along with civilian and homeland security applications. This add is being reprogrammed to The U.S. Army Tank Automotive, Research, Development and Engineering Center (TARDEC).	0.000	0.000
Congressional Add: New England Defense Manufacturing Supply Chain Institute <i>FY 2009 Accomplishments:</i> The purpose of the program is to leverage existing industrial capacity in New England to address Warfighter requirements for machined parts by developing methodologies to resolve parts shortages, surge demand, sustainment and obsolescence. DoD and DLA will benefit by having access to a network of suppliers to meet DoD critical machined parts requirements. TimeWise Management Systems (TWMS) has developed; field tested, and verified a technology-assisted integrated engineering and production solution that includes the following capabilities. This integrated solution has been field tested with commercial and military machine shops. Results so far indicate that the	0.798	0.000

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
engineering and manufacturing time for machine shops can be reduced by 50 percent to 75 percent depending on the part.		
Congressional Add: On-Site Alternative Fuel Manufacturing System <i>FY 2009 Accomplishments:</i> The objective of this program is to reduce the logistics of electrical power generation at Forward Operating Bases (FOBs) using proprietary biomass feedstock production and processing technologies for hydrogen that is modular and transportable.	1.197	0.000
Congressional Add: Reliability Testing of Lead Free Circular Components <i>FY 2009 Accomplishments:</i> The objective of this program is to find solutions with respect to lead-free and the potential deleterious impact on the reliability and safety of critical military electronics. The impact of lead-free on the reliability and safety of military electronics is largely unknown. The acquisition of statistically rigorous technical data relevant to the military environments is paramount to establish a viable mechanism to manage the risks inherent with lead-free.	1.436	0.000
Congressional Add: Smart Modular Regenerative Off-Grid Hydrogen Fuel Cell <i>FY 2009 Accomplishments:</i> The objective of this program is to design and produce an upgraded mobile version of the stationary system currently under development for the Navy and advance next generation fuel cell and electrolysis stack technologies.	0.997	0.000
Congressional Add: Vehicle Fuel Cell and Hydrogen Logistics Program	7.978	6.366

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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
<p><i>FY 2009 Accomplishments:</i> The objective of this program is to conduct Basic/applied Research and Development (R&D) and/or pilot programs in support of the Vehicle Fuel Cell and Hydrogen Logistics Program (VHP) - advance hydrogen fuel cells, hydrogen fuel infrastructure and vehicle integration Technology Readiness Levels (TRLs) and Manufacturing Readiness Levels (MRLs).</p> <p><i>FY 2010 Plans:</i> To be determined.</p>		
<p>Congressional Add: Progressive Research for Sustainable Manufacturing</p> <p><i>FY 2010 Plans:</i> To be determined.</p>	0.000	1.194
<p>Congressional Add: Reduced Cost Supply Readiness</p> <p><i>FY 2010 Plans:</i> To be determined.</p>	0.000	1.194
<p>Congressional Add: Cellulosic-Derivied Biofuels Research</p> <p><i>FY 2010 Plans:</i> To be determined.</p>	0.000	2.387
<p>Congressional Add: Fuel Cell Hybrid Battery Manufacturing for Defense Operations</p> <p><i>FY 2010 Plans:</i> To be determined.</p>	0.000	0.796

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B. Accomplishments/Planned Program (\$ in Millions)			
		FY 2009	FY 2010
Congressional Add: Next Generation Manufacturing Technologies Initiative <i>FY 2010 Plans:</i> To be determined.		0.000	1.592
Congressional Add: Woody Biomass Converison for JP-8 Fuel <i>FY 2010 Plans:</i> To be determined.		0.000	1.273
Congressional Add: Radio Frequency Identification Technologies <i>FY 2010 Plans:</i> To be determined.		0.000	0.995
	Congressional Adds Subtotals	55.808	32.907
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy N/A			
E. Performance Metrics N/A			

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