

# **DEFENSE LOGISTICS AGENCY**

**FISCAL YEAR (FY) 2004/2005 BIENNIAL BUDGET ESTIMATES**

**FEBRUARY 2003**



**RESEARCH, DEVELOPMENT, TEST AND EVALUATION**

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DEFENSE LOGISTICS AGENCY  
RESEARCH AND DEVELOPMENT, DEFENSE-WIDE  
DESCRIPTIVE SUMMARIES FOR FISCAL YEAR  
(FY)2004/2005 PRESIDENT'S BUDGET  
FEBRUARY 2003

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 FISCAL YEAR (FY) 2004/2005  
 RDT&E PROGRAM ELEMENT SUMMARY (R-1)  
 (Dollars in Thousands)

<u>Program Element Number</u>	<u>Title</u>	<u>Budget Activity</u>	<u>FY 2002 Actual</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>
0603712S	Logistics R&D Technology Demonstration	03	88,803	129,291	22,359	23,542
0603805S	Dual Use Application Programs (NCMS/CTMA)	03	6,000	0	0	0
0305840S	Electronic Commerce	05	0	0	2,360	2,345
0605798S	Defense Technology Analysis	06	5,626	5,017	5,209	5,279
0708011S	Industrial Preparedness/ ManTech	07	40,830	20,728	16,163	11,070
0708012S	Logistics Support Activities	07	0	28,182	35,781	11,457
	TOTAL - DIRECT		141,259	183,218	81,872	53,693

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>								Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				R-1 Item Nomenclature: Logistics R&D Technology Demonstration 0603712S					
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Total PE Cost	88.803	129.291	22.359	23.542	24.905	26.565	27.022	27.488	
Project 1: Material Acquisition: Electronics	9.232	16.537	9.673	10.160	10.267	10.326	10.494	10.678	
Project 2: Computer to Computer Negotiations	2.965	3.562	-----	-----	-----	-----	-----	-----	
Project 3: Pay per Use Logistics System	2.372	1.747	-----	-----	-----	-----	-----	-----	
Project 4: Aging Aircraft Sustainment Technology (AAST)	4.816	5.349	5.087	5.293	5.388	5.469	5.557	5.652	
Project 5: Virtual Reality Medical Assembly	1.231	0.594	1.923	2.946	2.947	1.935	1.968	2.002	
Project 6: Diminishing Manufacturing Source Data (DMS)	1.000	0.974	-----	-----	-----	-----	-----	-----	
Project 7: Computer Assisted Technology Transfer (CATT)	2.800	2.723	-----	-----	-----	-----	-----	-----	
Project 8: Competitive Sustainment (CS)	-----	0.965	0.986	1.196	2.356	4.893	5.546	5.402	
Project 9: Supply Chain Management	1.987	15.564	3.411	3.457	3.457	3.453	-----	-----	
Project 10: Agent Based Logistics Processes	-----	-----	-----	-----	-----	-----	2.969	3.267	
Project 11: eMASS (Completion Project)	-----	-----	1.279	0.490	0.490	0.489	0.488	0.487	
Project 12: Defense Microelectronics Activity (DMEA)	62.400	58.321	-----	-----	-----	-----	-----	-----	
Project 13: Other Congressionally Added Programs (OCAs)	-----	22.955	-----	-----	-----	-----	-----	-----	
<b>A. Mission Description and Budget Item Justification:</b>									
The DoD logistics vision calls for providing flexible, cost effective and prompt materiel support, logistics information and services, achieving the leanest possible infrastructure and the employment of the best commercial and government sources and practices. The DLA Logistics R&D									

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>		Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 3	R-1 Item Nomenclature: Logistics R&D Technology Demonstration 0603712S			
<p>program will develop and demonstrate high risk, high payoff technology that will provide a significantly higher level of support at lower costs, than would be otherwise attainable. This DLA program is a key part of the DARPA/DLA Advanced Logistics Program. Focused Logistics is one of the five basic tenants of Joint Vision 2020. The DLA Logistics R&amp;D program contributes directly to achieving JV 2020's vision of logistics "support in hours or days versus weeks." The objective of the Advanced Logistics Program is a collaborative environment that will allow the Operations community (J3) and Logistics planning community (J4), TRANSCOM, and DLA to seamlessly interact on operations planning and execution of wartime operations. In addition, DLA will use the same system in peacetime to significantly reduce Logistics Response Time and reduce the cost of DLA operations while maintaining readiness. The following synopses cover the programs under the DLA Log R&amp;D PE:</p>				
<p><b>B. Program Change Summary:</b> (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)</p>				
	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>
Previous President's Budget	84.043	25.451	27.735	28.689
Current President's Budget	88.803	129.291	22.359	23.542
Total Adjustments	+4.760	+103.840	-5.376	-5.147
Congressional increases		+107.450		
Revised inflation rate	-0.228	-1.092	-0.382	-0.552
Congressional program reductions/ rescissions		-2.518		
Reprogrammings/transfers	+5.000			
Program adjustments	-0.012		-4.994	-4.595
<p>Change Summary Explanation: FY 2002 reflects a reduction due to revised inflation rates (-\$0.228 million), the Log R&amp;D PE's pro-rata share of a DoD Intra-Agency Council bill (-\$0.012 million), and a reprogramming of +\$5.000 million for the Miniaturized Wireless System (DMEA) program. FY 2003 reflects (+\$107.450 million) congressionally added dollars for several electronic/related DMEA projects (+\$59.950 million); Diminishing Manufacturing Warehouse Solution (+\$1.0 million); Microelectronics Testing Technology/Obsolescence Program (+\$7.1 million); Milstar Painting and Coating Pollution Prevention (+\$1.0 million); CATT (+\$2.8 million); several OCAs for Homeland Defense Technology Collaboration Center (+\$1.8 million); Vehicle Fuel Cell Program (+\$7.0 million); Fuel Cell Locomotive (+\$1.0 million); Agile Port Demonstration (+\$4.3 million); New England Manufacturing Supply Chain (+\$6.0 million); and Maintainers Remote Logistics Network (+\$3.5 million). FY 2003 also reflects congressional adjustments per Section 8029 Federally Funded Research and Development Centers (FFRDCs) (-\$0.219 million), Section 8100 Business Process Reform (-\$1.216 million), Section 8109 Reducing Cost Growth in IT development (-\$0.289); Section 8135 Rescission (-\$0.794); and an FY 2003 inflation adjustment (-\$1.092 million). FYs 2004 and 2005 TOA net adjustments (-\$4.994 million in FY 2004, and -\$4.595 million in FY 2005 reflect completion of funding for the Computer to Computer Negotiations (-\$3.809 million in FY 2004 and -\$3.025 million in FY 2005); Pay per Use Logistics Systems (-\$2.485 million in FY 2004 and -\$2.070 million in FY 2005); R&amp;D funding for completion of the IT eMASS system (+\$1.300 million in FY 2004 and +\$0.500 million in FY 2005); and inflation adjustments (-\$0.382 million in FY 2004 and -\$0.552 million in FY 2005).</p>				
<p><b>C. Other Program Funding Summary:</b> N/A</p>				

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number Material Acquisition: Electronics (MAE), Project 1				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 1: MAE</b>	9.232	16.537	9.673	10.160	10.267	10.326	10.494	10.678
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> Develop a capability to emulate most obsolete digital integrated circuits (ICs) in the federal catalog using a single, flexible manufacturing line. DoD has estimated that \$2.9B is spent every five years in redesigning circuit card assemblies. Much of these redesigns are driven by IC obsolescence. The commercial suppliers of ICs typically terminate production lines every 18 months, moving on to the next generation of ICs. Because DoD maintains weapons systems much longer than 3 years, this creates an obsolescence problem that can only be overcome through buying excessive inventories of parts before the production lines close or redesigning the next higher assembly to eliminate the obsolete part. DLA, as the manager of 88% of the IC supply class, must have a capability to manufacture these devices. This project develops this capability and will expand it to succeeding generations of obsolete ICs through the Advanced Microcircuit Emulation program.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	9.232	9.629	9.673	10.160				
RDT&E Articles Quantity – N/A								
<p>The MAE project covers development of IC fabrication technology to continue to expand the capability to emulate succeeding generations of discontinued technology. This will include Low Rate Initial Production of earlier development efforts (e.g., 200K emulation Array) and integration of Advanced Tooling and development of future capabilities (e.g., High Speed/ High Density Emulation Arrays). Technology development will continue to deeper sub-micron (&lt;1.0 um) feature sizes and faster operating speeds. Development of IC design capability and design model library to realize emulation performance and functional requirements outcomes using developed IC fabrication technology. This design capability will address both standard catalog ICs and Application Specific Integrated Circuits (ASICs) and will accommodate both in-house and third-party (principally OEM) design requirements.</p>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	6.908	-----	-----				
RDT&E Articles Quantity – N/A								
<p>The congressionally added Microelectronics Testing Technology/Obsolescence Program will test, evaluate, and assess wide range microelectronics components that comprise so many of today's sophisticated military, and commercial systems.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number Computer to Computer Negotiations, Project 2				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 2: Computer to Computer Negotiations</b>	2.965	3.562	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> Current DLA/Service systems are unable to allow accurate visibilities to respond to the rapidly changing requirements. Cross-organizational system interfaces are needed for the supply chain decision-making process. The re-engineering effort under BSM does provide for eventual solution, however there are immediate needs to identify areas of gaps and develop interfaces, such as the integration of Service ERP system to the DLA Depot inventory system (DSS). Approach: The purpose of this activity is to capture supply-chain-wide visibilities and to use knowledge based intelligent workflow technologies to develop system interfaces that support the establishment of automated business processes and transactions between the Services and DLA.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.965	3.562	-----	-----				
RDT&E Articles Quantity - N/A								
<p>Initiated the R&amp;D development towards the expansion of computer software agent to agent negotiation techniques utilizing the ALP architecture in support of DLA application in classes I(Subsistence) and VIII(Medical) supply support plans. US Army Medical Materiel Agency (USAMMA) and Defense Supply Center Philadelphia, Medical (DSCP-M) need to develop a shared systems interface for demand forecasting and achievement of medical set assembly goals in FY02. A prototype will be developed to mitigate the long lead-times and static nature in medical assembly processes and address gaps in the current legacy ERP systems at DLA and USAMMA.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number Pay per Use Logistics, Project 3				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 3: Pay Per Use Logistics System</b>	2.372	1.747	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The emergence of complex networked computer systems promises to enhance DoD Logistics functions with new sources of information and services. Our vendor communities are developing rich sources of commodity information and information services. Functions that are currently done by government personnel and contractors might be better done on a "pay-per-use" basis by these new sources. For example, in times of conflict, the number of transactions processed by DLA systems do not increase greatly, but the number of items purchased does. The job of finding adequate sources and product equivalents is still labor intensive. Access to web-based information sources would improve procurement efficiency and the readiness of our customers. There are two basic issues that must be solved if we are to make use of these new capabilities. First, there must be a level of trust and assurance established with our commercial partners. This program will develop ways of automating information assurance relationships, especially in an environment that might be under attack. Second, the richness of information that is exchange must be increased. Use of human cognitive engineering will be used to support the functions of our knowledge workers to increase their efficiency while improving the quality of the services provided.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.372	1.747	-----	-----				
RDT&E Articles Quantity - N/A								
<ul style="list-style-type: none"> <li>• Initial awards for concept studies.</li> <li>• The concepts were evaluated and prototypes will begin to be developed.</li> <li>• Explore using the Advanced Logistics Program (ALP) technology to allow for interoperability between existing DLA applications.</li> </ul>								
<b>C. Other Program Funding Summary:</b> N/A								



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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number - Aging Aircraft Sustainment Technology (AAST), Project 4				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 4: AAST</b>	4.816	5.349	5.087	5.293	5.388	5.469	5.557	5.652
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The primary mission is to improve DLA support to our customers who are operating aging aircraft systems. Focus is on improving visibility of demand generation and DLA's ability to respond once demands are received.</p> <p>Part of the Aging Aircraft Sustainment Program is the Corrosion Prevention feature. The Virtual Corrosion Control Consortium (V-3C) is a web based information aggregation and collaboration capability designed to improve the productivity of both the public and private sectors of the corrosion community without altering the individual stakeholders' goals, objectives and functional processes. It provides a forum for communication and technical information exchange among all parties interested in corrosion prevention and treatment from basic research through application. An incremental development approach provides the ability to tailor capabilities based on "lessons learned" and evolving community needs. This task is the ongoing support of the Assistant Deputy Under Secretary of Defense, Maintenance Policy, Programs, and Resources (ADUSD/MPPR). Their mission is to provide responsible and cost-effective support to ensure readiness and sustainability for the total force. The vision of the ADUSD/MPPR is by FY2006, the joint logistics process will be a highly efficient, integrated system that ensures required support to the war-fighter. The Virtual Corrosion Control Consortium (V-3C) project provides a corrosion prevention and control information management and distribution center that will be life-cycle oriented and will serve as a leader in corrosion research, industry coordination, and information dissemination to all authorized agencies and components. In FY 2002 the Corrosion Prevention Info Distribution Center (CPIDC) a congressional add was funded under AAST (\$1.0 million). In FY 2003, Milstar Painting and Coating Pollution Prevention, a congressionally added program that will train in sound ways to coat aircraft, ships and vehicles; establish training sites at military bases, and create a MilStar internet database network, is funded under AAST (\$0.973 million).</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
AAST	4.816	4.376	5.087	5.293				
RDT&E Articles Quantity - N/A								
<p>Investigate and develop methods and tools for improved parts situation awareness in order to employ a more proactive approach to aircraft parts availability and supply. This thrust improves DLA's ability to predict DoD customer needs for increasing fleet maintenance requirements on aging aircraft. It includes efforts such as the development of various data extraction tools and techniques to access a wide variety of customer and supplier data bases, systems, or networks, extract relevant information, and present that information in a tailored fashion for use by program managers, maintainers, item managers, and buyers. Characterization of items of supply unique to the problems associated with the maintenance requirements for aging aircraft and their impact on DoD customer metrics such as fleet readiness levels, depot repair cycle time, cost etc.</p>								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number - Aging Aircraft Sustainment Technology (AAST), Project 4				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 4: AAST</b>	4.816	5.349	5.087	5.293	5.388	5.469	5.557	5.652
RDT&E Articles Quantity - N/A								
	FY 02	FY 03	FY 04	FY 05				
Milstar Painting and Coating	-----	0.973	-----	-----				
RDT&E Articles Quantity - N/A								
<p>Identify key functions for utilization of information in decision making relative to aircraft maintenance, parts supply, or sustaining engineering needs. Develop the concept of proactive sharing of information between various field activities, DLA ICP's, and weapons system Program Managers for utilization in planning or decision-making. Characterization of items of supply unique to the problems associated with the maintenance requirements for aging aircraft and their impact on DoD customer metrics such as fleet readiness levels, depot repair cycle time, cost etc.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p>								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Virtual Reality Medical Assembly (VRMA), Project 5				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 5: VRMA</b>	1.231	0.594	1.923	2.946	2.947	1.935	1.968	2.002
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> Defense Logistics Agency (DLA) has the responsibility to procure Medical Assemblies for the Services. These Medical Assemblies are complex in nature and change frequently to accommodate new types of form, fit, function, and utility. This program will attempt to utilize technology to reduce lead times, to reduce the logistics footprint, and to reduce overall assembly life-cycle costs.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	1.231	0.594	1.923	2.946				
RDT&E Articles Quantity – N/A								
<p>This effort began in FY 2001 with Joint Application Development (JAD) sessions to formalize requirements. Market analysis will be performed to identify the most appropriate virtual reality technology to employ, and detailed system specifications will be created. In FY 2002, a prototype of first-aid kits will be developed. In addition, formal requirements will be developed for a more complex medical assembly. In FY 2003, the first-aid kit assembly will be made ready for a production environment, the more complex medical assembly will be prototyped, and commercial data interfaces will be established. In FY 2004, DLA will prototype an entire field hospital assembly and will look to apply the technology to other processes within DLA. In FY 2005, DLA plans for full-scale production and demonstrations.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Diminishing Manufacturing Source Data (DMS), Project 6				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 6: DMS</b>	1.000	0.974	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> As aircraft, ships, and other vehicles are being expected to operate much longer than originally designed, the supply of parts for these systems has become a significant problem. When systems and components can no longer be obtained they are called diminishing manufacturing source (DMS) problems. Throughout the military, there are literally hundreds of independent operations attempting to solve steadily worsening DMS problems. Because these operations are very "stove-piped" in their existence, they do not share information across weapon systems, even though many of the parts are common. The only method to decrease this ever expanding cost to solve DMS problems would be to have a central repository of part solutions, shared across all weapon systems and all services. In order to create a central repository of military parts, a very large data warehouse will need to be created and populated with solutions to these DMS part problems.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	1.000	0.974	-----	-----				
RDT&E Articles Quantity – N/A								
<p>Develop a central repository of part solutions, shared across all weapon systems and all services. In order to create a central repository of military parts, a very large data warehouse will need to be created and populated with solutions to these DMS part problems.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number –Computer Assisted Technology Transfer (CATT), Project 7				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 7: CATT</b>	2.800	2.723	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> This initiative is necessary to identify and establish commercial manufacturing capabilities so that DLA Centers can acquire parts as they are needed (on demand) rather than investing in excessive stock, or risking non-availability of essential parts when needed. Contracting relationships will be established to obtain small quantities of military unique items of low demand, with significantly lower costs and greatly improved response time. This is an effort to use private sector manufacturers, in addition to all other measures to obtain parts quickly. CATT establishes a network of companies to produce parts in a very short production lead-time with minimum administration. This is a congressionally added program.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.800	2.723	-----	-----				
RDT&E Articles Quantity – N/A								
<p>Develop forecasting tools for low demand items. Develop corrosion protective compounds to replace paint primer systems. Provide support for Warner Robins ALC maintained aircraft spare parts.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>								Date: February 2003															
Appropriation/Budget Activity RDT&E, Defense-wide BA 3					Project Name and Number – Competitive Sustainment (CS), Project 8																		
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09															
<b>Project 8: CS</b>	-----	0.965	0.986	1.196	2.356	4.893	5.546	5.402															
RDT&E Articles Quantity - N/A																							
<p><b>A. Mission Description and Budget Item Justification:</b> Competitive Sustainment (CS) was added by Congress in FY 2000 in recognition of the need to make a substantial reduction to the cost of support for aging weapon systems.</p> <p><b>B. Accomplishments/Planned Program:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/ Effort/Subtotal Cost</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">0.965</td> <td style="text-align: center;">0.986</td> <td style="text-align: center;">1.196</td> </tr> <tr> <td>RDT&amp;E Articles Quantity – N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>A competitive source selection process was conducted for a manager of an industry coalition to conduct the work. The project conducts industry/Government pilots in the following five areas: 1) effective supply partnerships; 2) significant improvement in quality and access to technical data; 3) a streamlined maintenance process; 4) upgrade strategies for increased reliability and 5) innovative training. The goals are to reduce total costs of spares/replacements, cut the time from requirement to delivery for supplies and cut repair cycle.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Accomplishment/ Effort/Subtotal Cost	-----	0.965	0.986	1.196	RDT&E Articles Quantity – N/A				
	FY 02	FY 03	FY 04	FY 05																			
Accomplishment/ Effort/Subtotal Cost	-----	0.965	0.986	1.196																			
RDT&E Articles Quantity – N/A																							

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number - Supply Chain Management (SCM) Project 9				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 9: SCM</b>	1.987	15.564	3.411	3.457	3.457	3.453	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The DLA mission is to get the right item, at the right time, to the right place, at the right price, every time, in support of America's warfighter. To accomplish its mission DLA must use an integrated combat logistics solution that is coordinated among the services and across DoD to meet all combat support requirements in peace and war. 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 assembling supply chains to shorten lead times and reduce costs. The Agency must ensure that outsourcing strategies are coordinated; performance measures are in place to measure effectiveness, that the organizational structure promotes successful supply chain management and to incorporate the latest electronic commerce initiatives into its supply chain. The congressionally added Defense Supply Chain Technology Program (DSCT) program is funded here in FY 2003 (\$11.791 million).</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
SCM/DSCT	1.987	15.564	3.411	3.457				
RDT&E Articles Quantity - N/A								
<p>We are managing both the baseline SCM (3.773M) and congressionally added DSCT (11.791) as a single program. Our program will initiate some 20 Supply Chain Management Projects for DLA and the Services, which are in the following areas as they emerge from our current transformation efforts: supplier facing, customer facing, DLA Direct, customer Direct, and process enhancement.</p>								
<b>C. Other Program Funding Summary:</b> N/A								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003																
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number-Agent Based Logistics Processes, Project 10																			
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09															
<b>Project 10: Agent Based Logistics Processes</b>	-----	-----	-----	-----	-----	-----	2.969	3.267															
RDT&E Articles Quantity - N/A																							
<p><b>A. Mission Description and Budget Item Justification:</b> Project will develop plans and tools for flexible responses to changing supplier and demand data. It will provide the ability to link into war planning systems to address the ability of the industrial base to meet National Emergency Requirements. Nothing funded until FY08.</p> <p><b>B. Accomplishments/Planned Program:</b> N/A</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/ Effort/Subtotal Cost</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>RDT&amp;E Articles Quantity - N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>C. Other Program Funding Summary:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Accomplishment/ Effort/Subtotal Cost	-----	-----	-----	-----	RDT&E Articles Quantity - N/A				
	FY 02	FY 03	FY 04	FY 05																			
Accomplishment/ Effort/Subtotal Cost	-----	-----	-----	-----																			
RDT&E Articles Quantity - N/A																							



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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>								Date: February 2003															
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – eMASS, Project 11																			
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09															
<b>Project 11: eMASS (Completion Project)</b>	-----	-----	1.279	0.490	0.490	0.489	0.488	0.487															
RDT&E Articles Quantity - N/A																							
<p><b>A. Mission Description and Budget Item Justification:</b> Enterprise Mission Assurance Support System (eMASS) is a comprehensive, enterprise-wide capability that automates all major information assurance processes including certification and accreditation, vulnerability management, incident response, INFOCON level management and control, IA resource planning and management, circuit connection management, contingency planning, and IA command and control. It has OSD support since it will be used across DoD. eMASS will provide a single information assurance exchange standard across the DoD Global Information Grid (GIG) and will be an implementation of Security Assertion Markup Language (SAML), an XML based exchange standard. eMASS is being developed through a partnership with C3I, and will vet the policy requirements of an emerging family of information assurance policies called the 8500 series. eMass started within the PUL Log R&amp;D. This R&amp;D funding is needed for eMASS project completion.</p> <p><b>B. Accomplishments/Planned Program:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/ Effort/Subtotal Cost</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">1.279</td> <td style="text-align: center;">0.490</td> </tr> <tr> <td>RDT&amp;E Articles Quantity – N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Complete fully functional eMASS prototype in XML schema and XSLT style sheets. Complete SAML exchange standard for certification and accreditation security assertions. Fully integrate eMASS with the Open Vulnerability Assessment Language (OVAL) standard by developing an exchange standard with the Mitre Corporation Outpost automated toolset.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Accomplishment/ Effort/Subtotal Cost	-----	-----	1.279	0.490	RDT&E Articles Quantity – N/A				
	FY 02	FY 03	FY 04	FY 05																			
Accomplishment/ Effort/Subtotal Cost	-----	-----	1.279	0.490																			
RDT&E Articles Quantity – N/A																							

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Defense Microelectronics Activity (DMEA), Project 12				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 12: DMEA</b>	62.400	58.321	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The Defense Microelectronics Activity (DMEA) mission is to leverage advanced technologies to extend the life of weapon systems, to solve operational problems (e.g., reliability and maintainability) and to address diminishing manufacturing sources. The DMEA provides technical and application engineering support for the implementation of advanced microelectronics research technologies from design through assembly and installation. The DMEA manages an organic capability to support these strategically important technologies within the DoD. These advanced technologies are translated into solutions for military needs. DMEA's RDT&amp;E program is comprised of a mix of studies, investigations, planning efforts, developments, fabrications, and the insertions of solutions. This effort applies to all DoD systems using electronics e.g., F-22, B-2, AWACS, F-16, F-15, F-14, GPS, USQ-113, JAST, EA-6B, M-65, AN/TSC-93B, and AN/GSC-49 (V). Funds are required for technical and analytical support, equipment, supplies, travel, and publications.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	8.500	8.513	-----	-----				
RDT&E Articles Quantity – N/A								
Center for Nanosciences Innovation efforts are to systematically clarify the feasibility of applying nanoscience and technology to defense requirements.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	7.700	6.809	-----	-----				
RDT&E Articles Quantity – N/A								
Advanced Spray Cooling Technology efforts are to develop standardized advanced spray cooling technology products, demonstrate them in cross-platform migrations, and develop an automated process for integration of spray cooling products into military systems.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	5.000	6.225	-----	-----				
RDT&E Articles Quantity – N/A								
Optimizing Electronics for Advanced Controlled Environment Systems (ACES) efforts are to resolve thermal issues regarding electronics densification & advanced electronics packaging in military applications by designing components, chip-scale packaging, stacked structures, and electronic environmental systems that can withstand the demanding military thermal environments.								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Defense Microelectronics Activity (DMEA), Project 12				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 12: DMEA</b>	62.400	58.321	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<b>B. Accomplishments/Planned Program: (continued)</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	27.000	24.321	-----	-----				
RDT&E Articles Quantity – N/A								
Ultra-low Power Battlefield Sensor Communication System (ULBPSCS) efforts are to develop a netted battlefield sensor system with a combination of ultra-sensitive receivers, ultra-low power miniature sensors, advanced manufacturing processes, and a real-time mission critical distributed information system.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	5.000	6.809	-----	-----				
RDT&E Articles Quantity – N/A								
Miniaturized Wireless Communications System (Chameleon) efforts are to develop a covert self-contained microsensor package with on-board real-time mission critical information processing and an ultra-sensitive high temperature super-conducting transceiver.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	1.947	-----	-----				
RDT&E Articles Quantity – N/A								
Silicon Germanium Technology efforts are to develop viable methods to replace microcircuits that are used in high performance digital and mixed signal applications for DOD weapon systems.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	2.237	-----	-----				
RDT&E Articles Quantity – N/A								
High Power Microelectronics efforts are to develop viable methods to replace high power microcircuits in the 40-volt to 100-volt range that are used in DOD weapon systems.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	1.460	-----	-----				
RDT&E Articles Quantity – N/A								
Ferrite Diminishing Manufacturing Program efforts are to assess the viability of alternative approaches to and prospective technologies for the								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Defense Microelectronics Activity (DMEA), Project 12				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 12: DMEA</b>	62.400	58.321	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<b>B. Accomplishments/Planned Program: (continued)</b>								
mitigation of ferrite diminishing manufacturing source issues in microwave/millimeter-wave-based DOD weapon systems.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.000	-----	-----	-----				
RDT&E Articles Quantity – N/A								
Silicon-28 program efforts are to develop a viable method to deposit ultra-pure silicon in production-scale quantities. Si-28 is 10X faster than conventional silicon, requires significantly less power, generates less heat and is fully compatible with existing microelectronics fabrication processing techniques.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.400	-----	-----	-----				
RDT&E Articles Quantity – N/A								
Sub-Micron CMOS and CMOS/SOS Lithography efforts are to develop methods to replace highly complex microcircuits based on the higher density CMOS processes and improve our ability to make and sustain low volume source of devices.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.300	-----	-----	-----				
RDT&E Articles Quantity – N/A								
Strategic Radiation Hardened Microelectronics efforts are to develop design and prototyping capabilities to replace highly complex radiation hardened microcircuits to achieve form, fit, and function replacements.								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	2.500	-----	-----	-----				
RDT&E Articles Quantity – N/A								
Digital Electronic Warfare (EW) efforts are to develop an advanced digital technology EW receiver to replace the existing analog technology EW receivers.								
<b>C. Other Program Funding Summary: N/A</b>								

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 3				Project Name and Number – Other Congressionally Added Programs (OCAs), Project 13				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 13: OCAs</b>	-----	22.955	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<b>A. Mission Description and Budget Item Justification:</b> Congressionally added programs that reflect a range of related advanced technologies.								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	22.955	-----	-----				
RDT&E Articles Quantity – N/A								
<ul style="list-style-type: none"> <li>• HDTCC (\$1.751) – Homeland Defense Technology Collaboration Center. Congressional Add. Program Management TBD. Funding will be used to create a collaborative environment among the Homeland Defense communities and to transition current technology developed for the military to homeland defense activities.</li> <li>• VFCEP (\$6.808) – Vehicle Fuel Cell Programs. Congressional Add. US Army TACOM will oversee this add on behalf of DLA.</li> <li>• FCL (\$0.973) – Fuel Cell Locomotives. Congressionally Add. US Army TACOM will oversee this add on behalf of DLA.</li> <li>• APD (CC DOT) (\$4.184) – Agile Port Demonstrator. Congressional Add. OSD (DDR&amp;E)/WHS will oversee this project on behalf of the DLA.</li> <li>• NEMSC (\$5.835) – New England Manufacturing Supply Chain. Congressional Add. DLA will work with the Department of Commerce (NIST) to jointly oversee this add.</li> <li>• MRLN (\$3.404) – Maintainers Remote Logistics Network - US Army TACOM will manage this add on behalf of DLA.</li> </ul>								
<b>C. Other Program Funding Summary:</b> N/A								

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>							Date: February 2003																										
Appropriation/Budget Activity RDT&E, Defense-wide BA # 3				R-1 Item Nomenclature: Dual Use Applications Program (DUAP), 0603805S																													
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009																									
Total PE Cost	6.000	-----	-----	-----	-----	-----	-----	-----																									
National Center for Manufacturing Sciences (NCMS)/Commercial Technology & Maintenance Activities (CTMA)	6.000	-----	-----	-----	-----	-----	-----	-----																									
<p><b>A. Mission Description and Budget Item Justification:</b>            The Commercial Technology and Maintenance Activities (CTMA) program is a cooperative agreement between National Center for Manufacturing Sciences (NCMS) and the Deputy Under Secretary of Defense for Logistics and Materiel Readiness to co-sponsor technology development, deployment and validation with DoD organic maintenance activities and NCMS member companies. NCMS is a not-for-profit collaborative research consortium of North American corporations. It is the largest cross-industry consortium in the United States (240 member companies, an annual R&amp;D project portfolio exceeding \$80 million).</p> <p>The primary goals of the program are to transfer best commercial technologies and best practices to DoD maintenance activities via NCMS member companies. By partnering with NCMS members, the DoD maintenance activities are able to assess the benefits of new manufacturing technologies in their own facilities, working with industry leaders solving manufacturing problems through collaboration.</p> <p>The Department of Army, Defense Supply Service Washington (DSSW) is the contracting office for the program. The statement of work in the CTMA contract, DASW01-98-0002, remains essentially unchanged since the original contract was issued in FY 1998, and subsequent year funding has been added to the contract by modification.</p> <p><b>Program Change Summary</b></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 02</u></th> <th style="text-align: center;"><u>FY 03</u></th> <th style="text-align: center;"><u>FY 04</u></th> <th style="text-align: center;"><u>FY 05</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Current President's Budget</td> <td style="text-align: center;">6.000</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: center;">+6.000</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Reprogrammings/transfers</td> <td style="text-align: center;">+6.000</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Change Summary Explanation: In FY 2002 the Congress added this funding to the Office of the Secretary of Defense (OSD) O&amp;M, D-W appropriation. Funding was transferred to the DLA RDT&amp;E, D-W appropriation for execution. In FY 2003 the Congress again added this funding to the Office of the Secretary of Defense (OSD) O&amp;M, D-W appropriation.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p>										<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>	Previous President's Budget	0.000	-----	-----	-----	Current President's Budget	6.000				Total Adjustments	+6.000				Reprogrammings/transfers	+6.000			
	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>																													
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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>								Date: February 2003																																			
Appropriation/Budget Activity RDT&E, Defense-wide BA 5				R-1 Item Nomenclature: Electronic Commerce, 03058405																																							
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009																																			
Total PE Cost	-----	-----	2.360	2.345	2.345	2.340	2.335	2.330																																			
EC (eMall Sustainment)	-----	-----	2.360	2.345	2.345	2.340	2.335	2.330																																			
<p><b>A. Mission Description and Budget Item Justification:</b> A departmental management initiative to optimize available resources and promote the achievement of net-centricity directed realignment of RDT&amp;E funds from the Defense Information Systems Agency (DISA) to the Defense Logistics Agency (DLA) beginning in FY 2004 through FY 2009 to sustain specific tools and applications, subsequent to the termination of the Joint Electronic Commerce Program Office (JECPO). This program supports e-Mall operation, maintenance and enhancement. The program is one of a variety of key information technology tools and is an IT enterprise initiative to improve operational capability and transform business processes, while promoting interoperability, as part of the President's Management Agenda eGovernment initiative for Integrated Acquisition.</p> <p><b>B. Program Change Summary:</b> (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)</p> <table style="margin-left: 40px; border: none;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 02</u></th> <th style="text-align: center;"><u>FY 03</u></th> <th style="text-align: center;"><u>FY 04</u></th> <th style="text-align: center;"><u>FY 05</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Current President's Budget</td> <td></td> <td></td> <td style="text-align: center;">2.360</td> <td style="text-align: center;">2.345</td> </tr> <tr> <td>Total Adjustments</td> <td></td> <td></td> <td style="text-align: center;">+ 2.360</td> <td style="text-align: center;">+2.345</td> </tr> <tr> <td>    Revised inflation rate</td> <td></td> <td></td> <td style="text-align: center;">-0.040</td> <td style="text-align: center;">-0.055</td> </tr> <tr> <td>    Congressional rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Reprogrammings/transfers</td> <td></td> <td></td> <td style="text-align: center;">+2.400</td> <td style="text-align: center;">+2.400</td> </tr> </tbody> </table> <p>Change Summary Explanation: In FY 2003 the O&amp;M funded DLA JECPO office was terminated, with O&amp;M resources realigned to DISA. FY 2003 and prior FY 2002 e-MALL R&amp;D was funded under DISA. Beginning FY 2004, RDT&amp;E resources were realigned from DISA to DLA to sustain EC e-Mall efforts. FYs 2004 and 2005 reflect inflation adjustments (-\$0.040 million and -\$0.055 million, respectively).</p> <p><b>C. Other Program Funding Summary:</b> N/A</p> <p><b>Acquisition Strategy:</b> N/A</p>										<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>	Previous President's Budget	-----	-----	-----	-----	Current President's Budget			2.360	2.345	Total Adjustments			+ 2.360	+2.345	Revised inflation rate			-0.040	-0.055	Congressional rescissions					Reprogrammings/transfers			+2.400	+2.400
	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>																																							
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<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>					Date: February 2003				
Appropriation/Budget Activity RDT&E, Defense-wide BA 5			R-1 Item Nomenclature: Electronic Commerce, 03058405						
<b>A. Project Cost Breakdown</b>									
<b>EC (eMall Sustainment)</b>									
Project Cost Categories			FY 2002	FY 2003	FY 2004	FY 2005			
a. Manufacturing Process Support Costs			-----	-----	2.360	2.345			
<b>B. Budget Acquisition History and Planning Information</b>									
Contractor or Government Performing Activity	Contractor Method/Type Or Funding Vehicle	Award or Obligation Date	Performing Project Activity BAC	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
				-----	-----	2.360	2.345	cont.	cont.
1. Raytheon	Contract	02/2003							
2. PartNet	Contract	02/2003							
3. SCRA*	Contract	02/2003							
4. IBM	Contract	02/2003							
*South Carolina Research Authority									





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<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-Wide BA 5		Program Element Number and Name 0708011S Manufacturing Technology			R-1 Item Nomenclature: Electronic Commerce, 03058405				
<b>Schedule Profile</b>		<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
TBD									

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 06				R-1 Item Nomenclature: DEFENSE TECHNOLOGY ANALYSIS (DTA) 0605798S				
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	5.626	5.017	5.209	5.279	5.393	5.498	5.672	5.771
Project 1: DoD Technology Analysis Office (DTAO)	3.958	4.259	4.452	4.539	4.665	4.780	4.961	5.065
Project 2: Technology Integration	0.711	0.758	0.757	0.740	0.728	0.718	0.711	0.706
Project 3: Commodity Management System Consolidation (CMSC)	0.957	-----	-----	-----	-----	-----		
<p><b>A. Mission Description and Budget Item Justification:</b> This program element provides mission support to the Office of the Deputy Under Secretary of Defense (Science and Technology) (ODUSD(S&amp;T)). It covers a wide range of studies and analyses in support of the RDT&amp;E program and impacts the Department's decision-making to fund efforts to sustain operations for general R&amp;D.</p> <p>Project 1: The Defense Technology Analysis Office is responsible for providing engineering, scientific, and analytical support to the ODUSD(S&amp;T) in its responsibility for direction, overall quality, and content of the Science and Technology (S&amp;T) program and ensuring that the technology being developed is affordable and minimizes systems development risk. S&amp;T is defined as consisting of Basic Research, (6.1) Exploratory Development (6.2) and Advanced Technology (6.3).</p> <p>Project 2: Technology Integration (TI) activities advance international S&amp;T cooperation of specific projects of bilateral or multilateral interest. It provides the management support for U.S. participation in NATO's Research and Technology Organization (RTO) and "The Technical Cooperative Program" (TTCP). TI oversees, coordinates, and reviews RTO and TTCP activities in which the U.S. has an interest including ongoing and proposed collaborative programs, technical symposia and conferences, and standard operating procedures.</p> <p>Project 3: The Commodity Management System Consolidation (CMSC) and Integration team is charged with transitioning Commodity Systems to support the DOD Logistics 2010 Vision. This plan includes reducing response time, operational costs, and inventory and enhances customer satisfaction. To support this, the existing commodity management systems, in use by the Defense Logistics Agency (DLA), must be migrated to a common operating environment, which utilizes shared data, business rules that are accessible to DLA, its customers and its suppliers. Requirements to be met include: 1) Development of an automated parts ordering tool allowing a technician working off an Interactive Electronic Technical Manual (IETM) to requisition parts interactively from the technical manual's illustrated parts breakdown in a paperless manner. 2) Maintenance of a Supply Chain Management Council (SCMC) web site that allows SCMC and other personnel to access up-to-date information on the Council's mission, goals, minutes, briefings, papers, etc. 3) Development of a web based SCM Analysis site that allows customers to describe logistics requirements and obtain a proposed integrated solution based on the tools (i.e. prime vendor, e-commerce, Long-Term Contracts (LTCs), etc.) currently available.</p>								

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 06				R-1 Item Nomenclature: DEFENSE TECHNOLOGY ANALYSIS ( DTA) 0605798S				
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	5.626	5.017	5.209	5.279	5.393	5.498	5.672	5.771
Project 1: DoD Technology Analysis Office (DTAO)	3.958	4.259	4.452	4.539	4.665	4.780	4.961	5.065
Project 2: Technology Integration	0.711	0.758	0.757	0.740	0.728	0.718	0.711	0.706
Project 3: Commodity Management System Consolidation (CMSC)	0.957	-----	-----	-----	-----	-----		

**B. Program Change Summary:** (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)

	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>
Previous President's Budget	4.950	5.201	5.298	5.409
Current President's Budget	5.626	5.017	5.209	5.279
<b>Total Adjustments</b>	<b>+ .676</b>	<b>-0.184</b>	<b>-0.089</b>	<b>-0.130</b>
Revised inflation adjustment		-0.044	-0.089	-0.130
Congressional reductions/ rescissions	-0.275	-0.029		
Reprogrammings/transfer	+0.957			
Program adjustment	- .006	-0.111		

Change Summary Explanation: FY 2002 reflects an inflation adjustment (-\$0.275 million), a program adjustment due to DTA PE's pro-rata share of a DoD Intra-Agency Council bill (-\$0.006 million), and a reprogramming of +\$0.957 million for the CMSC program to correctly place it under DTA versus an Air Force program. FY 2003 reflects congressional adjustments (-\$0.184 million) per Section 8029 Federally Funded Research and Development Centers (FFRDCs) reduction (-\$0.055 million); Section 8100 Business Process Reform (-\$0.045 million); Section 8109 Reducing Cost Growth in IT Development (-\$0.011 million); Section 8135 Rescission (-\$0.029 million); and an FY 2003 inflation adjustment (-\$0.044 million). FYs 2004 and 2005 reflect inflation adjustments (-\$0.089 million and -\$0.130 million respectively).

**C. Other Program Funding Summary:** N/A

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 06				Project Name and Number – Defense Technology Analysis Office (DTAO), Project 001				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
Project 001 DTAO	3.958	4.259	4.452	4.539	4.665	4.780	4.961	5.065
RDT&E Articles Quantity - N/A								
<b>A. Mission Description and Budget Item Justification:</b>								
(U) This Project is to provide program management support for facilitating the development of the DoD Science and Technology Program and conduct assessments and analyses of the program to ensure maximum utilization of research and development funds to accomplish the overall science and technology objectives of the Department. Funds are required for technical and analytical support, equipment, supplies, travel, and publications.								
<b>B. Accomplishments/Planned Program</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	3.958	4.259	4.452	4.539				
RDT&E Articles Quantity – N/A								
<b>2002/2003:</b> The project has and continues to provide engineering, analytical, and program managerial support for: 1.) development of strategies and plans to exploit and develop science and technology to meet the needs of the department; 2.) making recommendations and developing guidance for science and technology programs; 3.) reviewing proposed and approved science and technology programs and make recommendations to optimize effectiveness of the DoD investments in science and technology; and 4.) oversight of science and technology issues, initiatives, and Congressional special interest.								
<b>2004/2005:</b> The project will continue to provide the same support for execution of approved programs and providing the program management support required for developing future science and technology programs to meet the needs of the Department.								
<b>C. Other Program Funding Summary:</b> N/A								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 06				Project Name and Number – Technology Integration, Project 002				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
Project 002 Technology Integration	0.711	0.758	0.757	0.740	0.728	0.718	0.711	0.706
RDT&E Articles Quantity - N/A								
<b>A. Mission Description and Budget Item Justification:</b>								
Technology Integration (TI) activities advance international science and technology (S&T) cooperation of specific projects of bilateral or multilateral interest. It provides the management support for U.S. participation in NATO's Research and Technology Organization (RTO) and "The Technical Cooperative Program" (TTCP). TI oversees, coordinates and reviews RTO and TTCP activities in which the U.S. has an interest including ongoing and proposed collaborative programs, technical symposia and conferences, and standard operating procedures. This effort will leverage Tri-Service S&T dollars through new and ongoing international partnerships. TI also provides selective funding support for administration, travel, conferences, and technical evaluations related to RTO activities carried out by the Services and other organizations.								
<b>B. Accomplishments/Planned Program</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	0.711	0.758	0.757	0.740				
RDT&E Articles Quantity – N/A								
<b>2002/2003:</b> The project and continues to provide program management support of the Department's science and technology international cooperative efforts through: 1.) international technology watch efforts to identify ongoing and proposed S&T efforts that could complement efforts or fill shortfalls in meeting U.S. S&T requirements, objectives and goals; 2.) Foster international bilateral and multilateral cooperative agreements in high value science & technology areas with allies, nonaligned nations and former Soviet Block nations; 3.) then establish data exchange agreements, engineer and scientist exchange program visits, international technology assessments and new cooperative programs; 4.) seek opportunities for international cooperation in high priority S&T; and conduct intradepartmental coordination to achieve goals as necessary.								
<b>2004/2003:</b> The project will continue to provide the same support for execution of approved programs and providing the program management support required for developing future science and technology international cooperative efforts to meet the needs of the Department.								
<b>C. Other Program Funding Summary:</b> N/A								

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 06				Project Name and Number -- Commodity Management System Consolidation (CMSC), Project 003				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
Project 003 CMSC	0.957							
RDT&E Articles Quantity - N/A								
<b>A. Mission Description and Budget Item Justification:</b>								
Consolidation and integration of all the commodity management systems used by the DLA is a large-scale effort. In order to manage program risk, the migration strategy must be designed to include a series of manageable successes, which combine incremental development, testing and fielding manageable subsets of the databases of legacy systems. This build a little, test a little approach assists DLA in early identification of risks of technology changes, staff turnovers, and of business process changes, and will provide management information to migrate these risks effectively and with a minimum of effort. It also improves the flexibility of the overall migration effort. Structurally, project flexibility will allow DLA to reprioritize portions of the migration effort to resolve critical issues.								
<b>B. Accomplishments/Planned Program</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	0.957							
RDT&E Articles Quantity - N/A								
<ul style="list-style-type: none"> <li>• Developed Ordering "Leave-in-Place" Prototype</li> <li>• Incorporated Knowledge Management Capabilities</li> </ul>								
<b>C. Other Program Funding Summary: N/A</b>								

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>								Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				R-1 Item Nomenclature: Manufacturing Technology 0708011S					
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Total PE Cost	40.830	20.728	16.163	11.070	10.474	10.484	10.668	10.855	
Project 1: Combat Rations	1.788	1.946	1.988	2.025	2.026	2.019	2.055	2.092	
Project 2: Apparel Research Network (ARN)	2.897	2.961	4.040	3.925	3.948	3.984	4.054	4.125	
Project 3: Procurement Readiness Optimization-Advanced Casting Technology (PRO-ACT)	2.305	2.281	2.283	2.354	2.445	2.435	2.477	2.520	
Project 4: Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)	1.306	1.933	1.960	1.970	2.055	2.046	2.082	2.118	
Project 5: Customer Value Industrial Plant Equipment (CV:IPE)	1.360	1.380	1.182	0.796	-----	-----	-----	-----	
Project 6: Supply Chain Management (SCM)	17.774	-----	-----	-----	-----	-----	-----	-----	
Project 7: Classified Programs	-----	2.357	4.710	-----	-----	-----	-----	-----	
Project 8: ERIM Defense/Competitive Sustainment (CS)	7.700	-----	-----	-----	-----	-----	-----	-----	
Project 9: Laser Additive Manufacturing (LAM)	5.700	5.902	-----	-----	-----	-----	-----	-----	
Project 10: Twelve Screw Extruder for Fuel Cell Technology	-----	1.968	-----	-----	-----	-----	-----	-----	
<p><b>A. Mission Description and Budget Item Justification:</b> Manufacturing Technology (ManTech) reduces costs and lead times, and increases quality, by developing and applying advanced manufacturing technology. DLA ManTech includes Combat Rations Network for Technology Implementation (CORANET), Apparel Research Network (ARN), Procurement Readiness Optimization—Advanced Casting Technology (PRO-ACT), and Procurement Readiness Optimization—Forging Advance System Technology (PRO-FAST); and Supply Chain Management (FY 2002 only), in addition to congressionally added programs.</p>									

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>		Date: February 2003			
Appropriation/Budget Activity RDT&E, Defense-wide BA 7	R-1 Item Nomenclature: Manufacturing Technology 0708011S				
<b>B. Program Change Summary:</b>					
	<u>FY 02</u>	<u>FY 03</u>	<u>FY 04</u>	<u>FY 05</u>	
Previous President's Budget	41.392	13.072	15.330	10.274	
Current President's Budget	40.830	20.728	16.163	11.070	
Total Adjustments	-0.562	-7.656	+0.833	+0.796	
Congressional increases		+8.000			
Revised inflation rate	-0.556		-0.270	-0.220	
Congressional program reductions/ rescissions		-0.344			
Program adjustments	-0.006		+1.103	+1.016	
Change Summary Explanation: FY 2002 reflects an inflation adjustment (-\$0.556 million) and the IP/ManTech PE's pro-rata share of a DoD Intra-Agency Council bill (-\$0.006 million). FY 2003 reflects (+\$8.0 million) congressionally added dollars for Laser Additive Manufacturing (+\$6.0 million); and Twelve Screw Extruder for Fuel Cell Technology (+\$2.0 million). FY 2003 also reflects congressional adjustments (-\$0.344 million) per Section 8100 Business Process Reform (-\$0.182 million), Section 8109 Reducing Cost Growth in IT Development (-\$0.043 million), and Section 8135 Rescission (-\$0.119 million). FYs 2004 and 2005 reflect a transfer from the Log R&D PE to the IP/ManTech PE to provide increased funding for the Apparel Research Network program (+\$1.103 million in FY 2004 and +\$1.016 million in FY 2005); and inflation adjustments (-\$10.270 million in FY 2004 and -\$0.0220 million in FY 2005).					
<b>C. Other Program Funding Summary:</b> N/A					
<b>D. Acquisition Strategy:</b> N/A					

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>								Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Combat Rations, Project 1					
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	
<b>Project 1: Combat Rations</b>	1.788	1.946	1.988	2.025	2.026	2.019	2.055	2.092	
RDT&E Articles Quantity - N/A									
<p><b>A. Mission Description and Budget Item Justification:</b> DLA buys about \$200 million worth of Combat Rations annually. The product is military unique. The limited industrial base is barely capable of producing variety and quantities needed for surge, and has been dependent on orders from Government to remain viable. This initiative ensures that DLA will have an industrial base to continue to support warfighters with needed combat rations. The program partners identify problems and develop new technology for implementation in their plants, after demonstrations conducted at a University demonstration site, unifying the civilian and military manufacturing processes to expand the base. The Joint Steering Group of users, designers, and buyers assures that selected projects contribute to DLA mission.</p>									
<b>B. Accomplishments/Planned Program:</b>									
	FY 02	FY 03	FY 04	FY 05					
Accomplishment/ Effort/Subtotal Cost	1.788	1.946	1.988	2.025					
RDT&E Articles Quantity – N/A									
<p>Develop and implement improved retort rack materials; implement multiple unit leak detectors in MRE plants; develop and implement machine vision on polymeric tray fill lines; evaluate ultrasonic technology for cost and quality benefits.</p>									
<b>C. Other Program Funding Summary:</b> N/A									
<b>D. Acquisition Strategy:</b> N/A									

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Exhibit R-3, RDT&E Program Element/Project Cost Breakdown					Date: February 2003				
Appropriation/Budget Activity RDT&E, Defense-wide BA 7			Project Name and Number Combat Rations, Project 1						
A. Project Cost Breakdown									
<b>Combat Rations</b>									
Project Cost Categories					FY 2002	FY 2003	FY 2004	FY 2005	
a. Manufacturing Process Support Costs					1.788	1.946	1.988	2.025	
B. Budget Acquisition History and Planning Information									
Contractor or Government Performing Activity	Contractor Method/Type Or Funding Vehicle	Award or Obligation Date	Performing Project Activity BAC	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
				1.788	1.946	1.988	2.025	Cont	Cont
Ameriquial	Cost, No Fee	12/01/2001	Partner						
Georgia, Univ of	Cost, No Fee	12/01/2001	Partner, STP*						
NCFST	Cost, No Fee	12/01/2001	Partner, STP						
Ohio State Univ	Cost, No Fee	12/01/2001	Partner, STP						
R&D Associates	Cost, No Fee	12/01/2001	Partner, STP						
Rutgers	Cost, No Fee	12/01/2001	Partner, STP						
SAIC	Cost, No Fee	12/01/2001	Partner, STP						
SOPAKCO	Cost, No Fee	12/01/2001	Partner, STP						
Stegner	Cost, No Fee	12/01/2001	Partner, STP						
Sterling	Cost, No Fee	11/25/2001	Partner						
TEES (TAMU)	Cost, No Fee	12/01/2001	Partner, STP						
Tennessee, Univ of	Cost, No Fee	12/01/2001	Partner, STP						
Wornick	Cost, No Fee	12/01/2001	Partner,						
Washington State Univ	Cost, No Fee	12/01/2001	Partner, STP						
Rutgers Demo Site	Cost, No Fee	12/01/2001	Partner, STP						
Government Furnished Property: None.								*STP = "Short Term Project"	

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Exhibit R-4, Schedule Profile																								Date: February 2003												
Appropriation/Budget Activity RDT&E, Defense-Wide BA 7				Program Element Number and Name 0708011S Manufacturing Technology												Project Name and Number Combat Rations, 1																				
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
BAA Preparation and Issue		△	■	△																																
BAA Closing and Evaluations				△																																
Partner Contracts Awarded				△																																
Kick Off Meeting, Joint Planning Sessions					Continue Contract for Partners, Two Years plus five One-year options																															
-- Selection and Award of Demo				△																																
-- Arrange for Facilitation				△					Continuous Monitoring of Projects by JSG Liaison Officers, Reporting Progress to Partner Workshops																											
Initial Review, Disposition of Candidate Projects, initial award of delivery orders					△																															
Follow on assessment of candidate Projects, acceptance of qualified subjects by JSG.						△	△																													
Continuing award of delivery orders, start performance							△	△																												
Conduct workshops to review projects, evaluate new candidate proposals, initiate qualified projects									△	■	△																									
Conduct IPRs to manage and control progress, assure that results are achieved and implemented when applicable									△	■	△																									

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<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-Wide BA 7	Program Element Number and Name 0708011S Manufacturing Technology				Project Name and Number Combat Rations, 1			
<b>Schedule Profile</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
BAA Preparation and Issue	2Q							
BAA Closing and Evaluations	4Q							
Contracts Awarded		1Q						
Kick Off Meeting, Joint Planning Sessions		1Q						
-- Selection and Award of Demo Site		1Q						
-- Arrangements for Facilitation		2Q						
Initial Review and Disposition of Candidate Projects, initial award of delivery orders		2Q						
Follow on assessment of candidate Projects, acceptance of qualified subjects by JSG.		2-3Q						
Continuing award of delivery orders		3-4Q						
Conduct workshops to review projects, evaluate new candidate proposals, initiate qualified projects		1-4Q						
Conduct IPRs to manage and control progress, assure that results are achieved and implemented when applicable		1-4Q	1-4Q	1-4Q	1-4Q			

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Exhibit R-2a, RDT&E Project Justification								Date: February 2003
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Apparel Research Network (ARN), Project 2				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 2: ARN</b>	2.897	2.961	4.040	3.925	3.948	3.984	4.054	4.125
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The Department of Defense, through the Defense Logistics Agency, purchases an average of \$1.2 billion of clothing and textile items per year. The lead-time is up to 15 months and the current inventory acquisition value over \$1 billion. ARN is a Manufacturing Technology program to improve the responsiveness of the industrial base that supplies the clothing items to the Military Services. It enables the small business oriented apparel producers to access state-of-the-art supply chain management technologies through its R&amp;D and technology transfer mechanism. It allows the military clothing supply chain to have asset visibility and decision support at retail, wholesale and manufacturing levels. The goal of this program is to reduce the lead-time from 6 months to 6 weeks and to reduce the inventory and inventory carrying costs by 50%. A 50% reduction in carrying cost would further reduce the cost to the customer.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
AAVS	1.000	1.000	2.000	2.000				
<p><b>ARN Asset Visibility System (AAVS)</b> – a data repository that integrates data from existing DoD, Services’ legacy systems and manufacturing data and 3D scan data collected from ARN developed systems with decision support with web-based interface.</p> <ul style="list-style-type: none"> <li>• Successfully implemented recruit clothing transactions</li> <li>• Further expansion to include non-recruit clothing: Organizational Clothing &amp; Initial Equipment (OCIE) items; Fiber and Textiles;</li> <li>• Leveraging with DoD Email and further expanding to include On-Demand-Manufacturing (ODM) hardware items.</li> </ul>								
	FY 02	FY 03	FY 04	FY 05				
VIM-ASAP	1.000	1.000	1.000	1.000				
<p><b>Virtual Item Manager – ARN Supply-chain Automated Processing (VIM-ASAP)</b> - A web-based system that pulls from the data collected in the AAVS Datamart, for military clothing manufacturers. ASAP receives electronic orders, captures WIP and finished goods inventories, prepares shipping documents, transmits invoices and receive payments electronically.</p> <ul style="list-style-type: none"> <li>• Successful implementations at selected group of defense clothing manufacturers</li> <li>• Leveraging and connecting with DCMA Wide Area Work Flow (WAWF) system.</li> <li>• Expanding to include regional distribution centers and Email ODM hardware manufacturers.</li> <li>• Future implementation of Balance Inventory Flow Replenishment to level manufacturing production capabilities</li> </ul>								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Apparel Research Network (ARN), Project 2				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 2: ARN</b>	2.897	2.961	4.040	3.925	3.948	3.984	4.054	4.125
RDT&E Articles Quantity - N/A								
	FY 02	FY 03	FY 04	FY 05				
VIM	0.897	0.961	1.040	0.925				
<p><b>VIM – Electronic Military Clothing Inventory Management System</b> - Pulls and pushes data to AAVS Datamart to provide fully integrated system, from 3-D full body scanning, size selection issue database with powerful inventory management tools for Military Service employee to view and manage inventory and supplies throughout the supply chain.</p> <ul style="list-style-type: none"> <li>▪ Successful implementations at Marine Corp Recruit Depot (MCRD) San Diego and Parris Island through FY 2002.</li> <li>▪ Expanding to include (5) Army, Navy and Air Force Recruit Training Centers, DLA non-recruit OCIE sites and Army Clothing Issue Facilities</li> </ul> <p><b>C. Other Program Funding Summary:</b> N/A</p> <p><b>D. Acquisition Strategy:</b> N/A</p>								

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<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Apparel Research Network (ARN), Project 2					
<b>A. Project Cost Breakdown</b>									
<b>Apparel Research Network</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				2.897	2.961	4.040	3.925		
<b>B. Budget Acquisition History and Planning Information</b>									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
Note: All contracts are Fixed Cost or CPFF				2.897	2.961	4.040	3.925	Cont	Cont
PDIT	CPFF/C								
Clemson Univ	CPFF/C								
Cyberware	CPFF/C								
EDI Integration	CPFF/C								
Southern Tech	CPFF/C								
Government Furnished Property: None.									

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Exhibit R-4, Schedule Profile																			Date: February 2003																	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7					Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology										Project Name and Number Apparel Research Network (ARN), Project 2																					
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
ARN Asset Visibility System																																				
▪ Expand Supply Chain to OCIE, and Fiber and Fabric Items																																				
▪ EMall On Demand Manufacturing Items																																				
ARN Supply Chain Automated Processing (ASAP)																																				
▪ Leveraging WAWF & Email																																				
▪ Balanced Inventory Flow Replenishment																																				
Electronic Military Clothing Inventory Management System																																				
▪ Additional Army & Non-recruit Sites																																				

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-Wide BA 7	Program Element Number and Name 0708011S Manufacturing Technology				Project Name and Number Apparel Research Network (ARN), Project 2				
Schedule Profile	FY 2001	FY 2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	
<b>ARN Asset Visibility System</b>	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q			
▪ Expand supply chain to Organizational Clothing & Individual Equipment and Textiles & Fiber			3-4Q	1-4Q	1-4Q	1-4Q			
▪ EMail On Demand Manufacturing Items				2-4Q	1-4Q	1-4Q	1-3Q		
<b>ARN Supply Chain Automated Processing</b>	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	
▪ Leveraging WAWF & Email		4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q		
▪ Balanced Inventory Flow Replenishment System			2-3Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	
<b>Electronic Military Clothing Inventory Management</b>	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-3Q		
▪ Additional Army and non-recruit sites		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-3Q		

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003																					
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Procurement Readiness Optimization-Advanced Casting Technology (PRO-ACT), Project 3																								
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09																				
<b>Project 3: PRO-ACT</b>	2.305	2.281	2.283	2.354	2.445	2.435	2.477	2.520																				
RDT&E Articles Quantity - N/A																												
<p><b>A. Mission Description and Budget Item Justification:</b> About 6% of all weapon system spare parts are made from castings, but they account for about 10% of all backorders, due to obsolete and incomplete technical data packages, and atrophied supply chains.</p> <p><b>B. Accomplishments/Planned Program:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Collaborative Problem Solving</td> <td style="text-align: center;">1.545</td> <td style="text-align: center;">1.528</td> <td style="text-align: center;">1.530</td> <td style="text-align: center;">1.577</td> </tr> </tbody> </table> <p>Collaborative problem solving environments have been prototyped with several of the Military Service Engineering Support Activities. Each environment is custom designed to reflect the needs of the weapon system and the processes used by the Services. Collaborative teams include representatives of DLA, the Services, primes and subcontractors. Efforts have been focused on over 500 different weapon systems parts that have caused backorder problems. This model of providing solutions to vexing spare parts sourcing problems will be further developed and deployed throughout the DoD as resources and opportunities permit.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Casting Technology for Cost Reduction</td> <td style="text-align: center;">0.760</td> <td style="text-align: center;">0.753</td> <td style="text-align: center;">0.753</td> <td style="text-align: center;">0.777</td> </tr> </tbody> </table> <p>Casting technology for cost reduction is under development at several sites, including simulation of size, position and type of cast steel porosity and its effect on service life; development of a foundry tooling database; enhancement of die casting visualization software to reduce trial and error; melting and molding process improvements for seal rings used in armored vehicles; investigation of cheaper tooling materials for short run production; improved prediction of patternmakers shrink which will reduce production time.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p> <p><b>D. Acquisition Strategy:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Collaborative Problem Solving	1.545	1.528	1.530	1.577		FY 02	FY 03	FY 04	FY 05	Casting Technology for Cost Reduction	0.760	0.753	0.753	0.777
	FY 02	FY 03	FY 04	FY 05																								
Collaborative Problem Solving	1.545	1.528	1.530	1.577																								
	FY 02	FY 03	FY 04	FY 05																								
Casting Technology for Cost Reduction	0.760	0.753	0.753	0.777																								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Procurement Readiness Optimization-Advanced Casting Technology (PRO-ACT), Project 3					
<b>A. Project Cost Breakdown</b>									
<b>Procurement Readiness Optimization—Advanced Casting Technologies (PRO-ACT)</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				2.305	2.281	2.283	2.354		
<b>B. Budget Acquisition History and Planning Information</b>									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date <u>                    </u>	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
ATI	Cost Share	06/23/2000	N/A	<u>2.305</u>	<u>2.281</u>	<u>2.283</u>	<u>2.354</u>	<u>Cont</u>	<u>Cont</u>
Government Furnished Property: None.									

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<b>Exhibit R-4, Schedule Profile</b>																								Date: February 2003												
Appropriation/Budget Activity RDT&E, Defense Wide BA 7								Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology								Project Number and Name Project 3, Procurement Readiness Optimization – Advanced Casting Technology (PRO-ACT)																				
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
Collaborative Problem Solving	[Bar spanning from 2001 Q1 to 2006 Q4]																																			
Casting Technology for Cost Reduction	[Bar spanning from 2001 Q1 to 2006 Q3]																																			

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<b>Exhibit R-4a, Schedule Detail</b>								Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7	Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology				Project Number and Name Project 3, Procurement Readiness Optimization – Advanced Casting Technology (PRO-ACT),				
<b>Schedule Profile</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	
Collaborative Problem Solving	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	
Casting Technology for Cost Reduction	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-2Q		

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST), Project 4				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 4: PRO-FAST</b>	1.306	1.933	1.960	1.970	2.055	2.046	2.082	2.118
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> About 6% of all weapon system spares are made from forgings but forgings account for 10% of all backorders, due to obsolete and incomplete technical data packages and atrophied supply chains.</p>								
<p><b>B. Accomplishments/Planned Program:</b></p>								
	FY 02	FY 03	FY 04	FY 05				
Collaborative Problem Solving	0.875	1.295	1.313	1.320				
<p>This program develops and demonstrates innovate solutions to forged spare parts problems by building collaborative teams with DLA and the Military Services. It also develops fast, cheap tooling technology. Tooling is a major lead-time driver for small quantity forging production.</p> <p>Collaborative problem solving environments have been prototyped with several of the Military Service Engineering Support Activities. Each environment is custom designed to reflect the needs of the weapon system and the processes used by the Services. Collaborative teams include representatives of DLA, the Services, primes and subcontractors. Efforts have been focused on over 50 different weapon systems parts that have caused backorder problems. This model of providing solutions to vexing spare parts sourcing problems will be further developed and deployed throughout the DoD as resources and opportunities permit.</p>								
	FY 02	FY 03	FY 04	FY 05				
Forging Technology for Lead Time Reduction	0.431	0.638	0.647	0.65				
<p>Forging technology for lead-time development is under development at several sites. Rapid low cost tooling will be developed based on a spray metal technique; lean manufacturing demonstrations in a job shop forging environment will be used to prototype new practices for faster forging; a database of forging dies will be developed and fielded.</p>								
<p><b>C. Other Program Funding Summary:</b> N/A</p>								
<p><b>D. Acquisition Strategy:</b> N/A</p>								

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<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>					Date: February 2003					
Appropriation/Budget Activity RDT&E, Defense-wide BA 7					Project Name and Number Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST), Project 4					
<b>A. Project Cost Breakdown</b>										
<b>Procurement Readiness Optimization—Forging Advanced System Technology (PRO-FAST)</b>										
Project Cost Categories					FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs					1.306	1.933	1.960	1.970		
<b>B. Budget Acquisition History and Planning Information</b>										
Performing Organizations										
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date <u>                    </u>	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program	
ATI	Cost Share	02/09/2001	N/A	<u>1.306</u>	<u>1.933</u>	<u>1.960</u>	<u>1.970</u>	<u>Cont</u>	<u>Cont</u>	
Government Furnished Property: None.										

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<b>Exhibit R-4, Schedule Profile</b>																								Date: February 2003												
Appropriation/Budget Activity RDT&E, Defense Wide BA 7								Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology								Project Number and Name Project 4 Procurement Readiness Optimization – Forging Advanced System Technology (PRO-FAST)																				
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
Collaborative Problem Solving	[Bar spanning from 2001 Q1 to 2006 Q4]																																			
Forging Technology for Lead Time Reduction	[Bar spanning from 2001 Q1 to 2005 Q3]																																			

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<b>Exhibit R-4a, Schedule Detail</b>								Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7		Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology				Project Number and Name Project 4 Procurement Readiness Optimization – Forging Advanced System Technology (PRO-FAST)			
<b>Schedule Profile</b>		<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
Collaborative Problem Solving		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Forging Technology for Lead Time Reduction		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>								Date: February 2003										
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Customer Value Industrial Plant Equipment (CV:IPE), Project 5														
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09										
<b>Project 5: CV:IPE</b>	1.360	1.380	1.182	0.796	-----	-----	-----	-----										
RDT&E Articles Quantity - N/A																		
<p><b>A. Mission Description and Budget Item Justification:</b> Industrial Plant Equipment (IPE) is used by maintenance depots, air logistics centers and on bases and ships everywhere to maintain weapons. When this equipment becomes worn, it can either be rebuilt or replaced with new. It is unusual for rebuilt equipment to be 40% cheaper than new equipment. Rebuilds also save money because they use the same foundations and utility connections. Rebuilds can be challenging because there is little standardization, spare parts can be hard to get, and old equipment can conceal hidden defects. Rebuild times can stretch out, which is a risk factor to maintenance activities, because large machines can have unique capabilities and cannot be kept offline for long periods.</p> <p><b>B. Accomplishments/Planned Program:</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Lean Manufacturing Principles</td> <td style="text-align: center;">1.360</td> <td style="text-align: center;">1.380</td> <td style="text-align: center;">1.182</td> <td style="text-align: center;">0.796</td> </tr> </tbody> </table> <p>This project applies lean manufacturing principles to the overhaul of IPE. Lean manufacturing is a methodology that looks at every process step from the end consumer's viewpoint. If it doesn't add value, it is a candidate for elimination. Lean manufacturing has a toolbox of methods that will be applied to rebuilding IPE, including standard work; visible processes; capable processes; and empowered workforce.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p> <p><b>D. Acquisition Strategy:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Lean Manufacturing Principles	1.360	1.380	1.182	0.796
	FY 02	FY 03	FY 04	FY 05														
Lean Manufacturing Principles	1.360	1.380	1.182	0.796														

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<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Customer Value Industrial Plant Equipment (CV:IPE), Project 5					
<b>A. Project Cost Breakdown</b>									
<b>Customer Value Industrial Plant Equipment (CV:IPE)</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				1.360	1.380	1.182	0.796		
<b>B. Budget Acquisition History and Planning Information</b>									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date <u>                    </u>	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
Various	CPFF	03/2002		<u>1.360</u>	<u>1.380</u>	<u>1.182</u>	<u>0.796</u>	<u>1.360</u>	<u>4.718</u>
Government Furnished Property: None.									

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<b>Exhibit R-4, Schedule Profile</b>																								Date: February 2003												
Appropriation/Budget Activity RDT&E, Defense Wide BA 7				Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology								Project Number and Name Project 5, Customer Value: Industrial Plant Equipment (CV:IPE)																								
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
Baselining Current Processes																																				
Develop Standard Templates																																				
New Methods for Project Initiation & Risk Management Plans																																				
Rapid Design of Control Systems																																				
Parametric Estimating Models for Rapid Cost Estimates																																				

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<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7	Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology				Project Number and Name Project 5, Customer Value: Industrial Plant Equipment (CV:IPE)			
<b>Schedule Profile</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
Baselining Current Processes		1-4Q						
Develop Standard Templates		1-4Q						
New Methods for Project Initiation & Risk Management Plans			1-4Q					
Rapid Design of Control Systems				1-4Q				
Parametric Estimating Models for Rapid Cost Estimates					1-4Q			

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Supply Chain Management (SCM), Project 6				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 6: SCM</b>	17.774	-----	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> The DLA mission is to get the right item, at the right time, to the right place, at the right price, every time, in support of America’s warfighter. To accomplish its mission DLA must use an integrated combat logistics solution that is coordinated among the services and across DoD to meet all combat support requirements in peace and war. 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 assembling supply chains to shorten lead times and reduce costs. The Agency must ensure that outsourcing strategies are coordinated; performance measures are in place to measure effectiveness, that the organizational structure promotes successful supply chain management and to incorporate the latest electronic commerce initiatives into its supply chain.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	17.774	-----	-----	-----				
RDT&E Articles Quantity – N/A								
<p>Projects to enhance asset visibility and tracking by adding serial number tracking and web access to the Microchip Logistics Program; add uxiliary search engine capability and a “manufacture to order” capability for the DoD E-MALL; add capabilities to DLA’s Procurement History Data Mart and to extend similar functionality to an online database for requisition data.</p>								
<b>C. Other Program Funding Summary:</b> N/A								
<b>D. Acquisition Strategy:</b> N/A								

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Classified Programs (CP), Project 7				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 7: CP</b>	-----	2.357	4.710	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<b>A. Mission Description and Budget Item Justification: N/A</b>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	-----	2.357	4.710	-----				
RDT&E Articles Quantity - N/A								
CP								
<b>C. Other Program Funding Summary: N/A</b>								
<b>D. Acquisition Strategy: N/A</b>								

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Exhibit R-2a, RDT&E Project Justification							Date: February 2003			
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number ERIM Defense/Competitive Sustainment Initiative (ERIM Def/CS Initiative), Project 8						
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09		
<b>Project 8: ERIM Def/(CS) Initiative</b>	7.700	-----	-----	-----	-----	-----	-----	-----		
RDT&E Articles Quantity - N/A										
<p><b>A. Mission Description and Budget Item Justification:</b> ERIM Competitive Sustainment (CS) was added by Congress in FY 02 in recognition of the need to substantially reduce the cost of support for aging weapon systems by addressing the manufacturing requirements associated with producing parts for aging weapon systems. A competitive source selection process was conducted for a manager of an industry coalition to conduct the work.</p>										
<b>B. Accomplishments/Planned Program:</b>										
	FY 02	FY 03	FY 04	FY 05						
Accomplishment/ Effort/Subtotal Cost	7.700	-----	-----	-----						
RDT&E Articles Quantity – N/A										
<p>Conducts industry/Government pilots in the following five areas: 1) effective supply partnerships; 2) significant improvement in quality and access to technical data; 3) a streamlined maintenance process; 4) upgrade strategies for increased reliability and 5) innovative training. The goals are to reduce total costs of spares/replacements, cut the time from requirement to delivery for supplies and cut repair cycle time.</p>										
<b>C. Other Program Funding Summary:</b>										
	<u>PY</u>	<u>CY</u>	<u>BY<sup>1</sup></u>	<u>BY<sup>2</sup></u>	<u>BY<sup>2+1</sup></u>	<u>BY<sup>2+2</sup></u>	<u>BY<sup>2+3</sup></u>	<u>BY<sup>2+4</sup></u>	<u>To Complete</u>	<u>Total Cost</u>
Related RDT&E: 0603712S										
Competitive Sustainment	3.0	0.0	1.0	1.0	1.2	2.4	4.9	5.6	cont.	cont
<b>D. Acquisition Strategy:</b> N/A										

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Exhibit R-3, RDT&E Program Element/Project Cost Breakdown							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number ERIM Defense/Competitive Sustainment Initiative (ERIM Def/CS Initiative), Project 8					
A. Project Cost Breakdown									
<b>ERIM Defense/Competitive Sustainment Initiative</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				7.700	-----	-----	-----		
B. Budget Acquisition History and Planning Information									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
ERIM/ATI	Competitive Contract Awarded	2Q02		<u>7.700</u>	-----	-----	-----	<u>7.700</u>	<u>7.700</u>
Contract Support	Cost	2002	Andrulis Corp.						
Government Furnished Property: None.									

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-4, Schedule Profile																								Date: February 2003																
Appropriation/Budget Activity RDT&E, Defense Wide BA 7				Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology												Project Name and Number ERIM Defense/Competitive Sustainment Initiative (ERIM Def/CS Initiative), Project 8																								
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009							
	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	1	2	3	4				
BAA Preparation and Issue	▲	■	▲																																					
BAA Closing and Evaluations				▲																																				
Industry Coalition Mgt Awarded							▲																																	
Organize and manage an industry coalition									Contract awarded for 5 years —Awarded under PE 0603712S																															
Exchange to Exchange Services							■	▲																																
EPortal for Obsolete parts solutions							■	▲																																
Contractor Repair Information Support Pilot Phase 0							■	▲																																
Contractor Repair Information Support Pilot Phase 1											▲	▲																												
Supply Chain Portal - AF											▲	▲																												
Robust Lean Supply Chains											▲	▲																												
Shared Condition Based Maintenance Systems											▲	▲																												

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7	Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology				Project Name and Number ERIM Defense/Competitive Sustainment Initiative (ERIM Def/CS Initiative), Project 8			
<b>Schedule Profile</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
BAA Preparation and Issue	1-3Q							
BAA Closing and Evaluations	4Q	1Q						
Industry Coalition Mgt Awarded		2Q						
Organize and manage an industry coalition		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q		
Exchange to Exchange Services		1-4Q	1-2Q					
EPortal for Obsolete parts solutions		1-4Q	1-2Q					
Contractor Repair Information Support Pilot Phase 0		1-3Q						
Contractor Repair Information Support Pilot Phase 1		4Q	1-4Q	1Q				
Supply Chain Portal - AF		4Q	1-4Q	1Q				
Robust Lean Supply Chains		4Q	1-4Q	1Q				
Shared Condition Based Maintenance Systems		4Q	1-4Q	1Q				
BAA Preparation and Issue		4Q	1-4Q	1Q				

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Laser Additive Manufacturing (LAM), Project 9				
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09
<b>Project 9: LAM</b>	5.700	5.902	-----	-----	-----	-----	-----	-----
RDT&E Articles Quantity - N/A								
<p><b>A. Mission Description and Budget Item Justification:</b> This program will develop a rapid manufacturing capability that produces high performance military and commercial components via laser additive manufacturing. It will be executed to realize as many applications as possible across the services and also support the DLA mission. The Laser Additive Manufacturing (LAM) process has the ability to produce components with properties bridging between the high end of castings and the low end of forgings. The major advantages are a reduced cycle time of up to 75%, reduced cost, elimination of forging dies and casting molds, inserts and fixtures, and reduced machining requirements.</p>								
<b>B. Accomplishments/Planned Program:</b>								
	FY 02	FY 03	FY 04	FY 05				
Accomplishment/ Effort/Subtotal Cost	5.700	5.902	-----	-----				
RDT&E Articles Quantity - N/A								
<p>A joint advisory board will be constituted to provide oversight. Initial applications are planned for components of aerospace systems including fighters, and helicopters, applications for missiles including rhenium motors and thrusters, and other components. A portion of the program will also focus on repairs. Weapon system contractors such as Boeing and Sikorsky will also be participating to assure the smooth transition of the technology. Aerospace components have been selected for transition. A qualification matrix has been developed. Prototype parts will be processed and qualified. A test matrix to qualify repair parts will be developed. Technology will be developed for non-aerospace applications. The technology will be transitioned to as many parts as possible.</p>								
<b>C. Other Program Funding Summary:</b> N/A								
<b>D. Acquisition Strategy:</b> N/A								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-3, RDT&amp;E Program Element/Project Cost Breakdown</b>							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Laser Additive Manufacturing (LAM), Project 9					
<b>A. Project Cost Breakdown</b>									
<b>Laser Additive Manufacturing (LAM)</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				5.700	5.902	-----	-----		
<b>B. Budget Acquisition History and Planning Information</b>									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date _____	Performing Project Activity <u>BAC</u>	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
Aeromet Corp	Section 845 Prototype Agreement	27 Sep 02		5.700	5.902	-----	-----	5.700	11.602
Government Furnished Property: None.									

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-4, Schedule Profile																								Date: February 2003												
Appropriation/Budget Activity RDT&E, Defense Wide BA 7					Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology										Project Name and Number Laser Additive Manufacturing (LAM), Project 9																					
Fiscal Year	2001				2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
Establish Tri-service joint advisory board.					█	█	█	█																												
Select target aerospace components for transition					█	█	█	█																												
Develop a qualification matrix for the parts					█	█	█	█																												
Process prototype parts and qualify the process, material, and the part					█	█	█	█																												
Research DOD parts that can be repaired at a reduced cost versus procurement of new parts					█	█	█	█																												
Establish a test matrix for repair parts to qualify the repair					█	█	█	█																												
Produce and qualify prototype parts					█	█	█	█	█	█	█	█	█	█	█	█																				
Develop technology for non-aerospace applications					█	█	█	█																												

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-4a, Schedule Detail</b>							Date: February 2003	
Appropriation/Budget Activity RDT&E, Defense Wide BA 7	Program Element Number and Name PE 0708011S Industrial Preparedness Manufacturing Technology				Project Name and Number Laser Additive Manufacturing (LAM), Project #9			
<b>Schedule Profile</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>
Establish Tri-service joint advisory board.		1-4Q						
Select target aerospace components for transition		1-4Q						
Develop a qualification matrix for the parts		1-4Q						
Process prototype parts and qualify the process, material, and the part		1-4Q						
Research DOD parts that can be repaired at a reduced cost versus procurement of new parts		1-4Q						
Establish a test matrix for repair parts to qualify the repair		1-4Q						
Produce and qualify prototype parts		1-4Q	1-4Q					
Develop technology for non-aerospace applications		1-4Q						
Transition the LAM process for as many parts as possible		1-4Q						

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>							Date: February 2003																
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Twelve Screw Extruder for Fuel Cell Technology (FCT), Project 10																			
Cost (\$ in millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09															
<b>Project 10: Twelve Screw Extruder for Fuel Cell Technology (FCT)</b>	-----	1.968	-----	-----	-----	-----	-----	-----															
RDT&E Articles Quantity - N/A																							
<p><b>A. Mission Description and Budget Item Justification:</b> Congressional add. This program will develop and demonstrate manufacturing technology for fuel cell extruders.</p> <p><b>B. Accomplishments/Planned Program:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 02</th> <th style="text-align: center;">FY 03</th> <th style="text-align: center;">FY 04</th> <th style="text-align: center;">FY 05</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/ Effort/Subtotal Cost</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">1.968</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>RDT&amp;E Articles Quantity - N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Congressional add. Program plan being developed.</p> <p><b>C. Other Program Funding Summary:</b> N/A</p> <p><b>D. Acquisition Strategy:</b> N/A</p>										FY 02	FY 03	FY 04	FY 05	Accomplishment/ Effort/Subtotal Cost	-----	1.968	-----	-----	RDT&E Articles Quantity - N/A				
	FY 02	FY 03	FY 04	FY 05																			
Accomplishment/ Effort/Subtotal Cost	-----	1.968	-----	-----																			
RDT&E Articles Quantity - N/A																							

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-3, RDT&E Program Element/Project Cost Breakdown				Date: February 2003					
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				Project Name and Number Twelve Screw Extruder for Fuel Cell Technology (FCT), Project 10					
A. Project Cost Breakdown <b>Twelve Screw Extruder for Fuel Cell Technology (FCT)</b>									
Project Cost Categories				FY 2002	FY 2003	FY 2004	FY 2005		
a. Manufacturing Process Support Costs				-----	1.968	-----	-----		
B. Budget Acquisition History and Planning Information									
Performing Organizations									
Contractor or Government Performing <u>Activity</u>	Contractor Method/Type Or Funding <u>Vehicle</u>	Award or Obligation Date <u>                    </u>	Performing Project Activity <u>BAC</u>	FY 2002 <u>                    </u>	FY 2003 <u>                    </u>	FY 2004 <u>                    </u>	FY 2005 <u>                    </u>	Budget to Complete <u>                    </u>	Total Program <u>                    </u>
TBD	TBD	TBD			1.968				1.968
Government Furnished Property: None.									

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-2, RDT&E Budget Item Justification								Date: February 2003
Appropriation/Budget Activity RDT&E, Defense-wide BA 7				R-1 Item Nomenclature: Logistics Support Activities, 0708012S				
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	-----	28.182	35.781	11.457	6.957	6.944	7.131	7.118
Classified Programs (CP)	-----	28.182	35.781	11.457	6.957	6.944	7.131	7.118
<b>A. Mission Description and Budget Item Justification:</b> This is a classified program. Justification will be provided under a separate cover.								
<b>B. Program Change Summary</b>								
		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>			
Previous President's Budget			-----	-----	-----			
Current President's Budget			28.182	35.781	11.457			
Total Adjustments								
Revised inflation rate				-0.418	-0.619	-0.143		
Congressional increases				+28.600	+36.400	+11.600		
Change Summary Explanation: N/A								
<b>C. Other Program Funding Summary:</b> N/A								
<b>D. Acquisition Strategy:</b> N/A								

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**FISCAL YEAR (FY) 2004/2005 DESCRIPTIVE SUMMARIES**

Exhibit R-3, RDT&E Program Element/Project Cost Breakdown							Date: February 2003		
Appropriation/Budget Activity RDT&E, Defense-wide BA 7					Project Name and Number CP, Project 1				
A. Project Cost Breakdown									
<b>Classified Programs</b>									
Project Cost Categories					FY 2002	FY 2003	FY 2004	FY 2005	
a. Manufacturing Process Support Costs						28.182	35.781	11.457	
B. Budget Acquisition History and Planning Information									
Performing Organizations									
Contractor or Government Performing Activity	Contractor Method/Type Or Funding Vehicle	Award or Obligation Date	Performing Project Activity BAC	FY 2002	FY 2003	FY 2004	FY 2005	Budget to Complete	Total Program
	N/A			_____	_____	_____	_____	_____	_____
Government Furnished Property: N/A.									

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**DEFENSE LOGISTICS AGENCY  
SUMMARY OF FY 2004/2005 DESCRIPTIVE SUMMARIES**

Defense Logistics Agency  
(\$ in Thousands)

<u>Appropriation Title</u>	<u>Direct Budget Plan (TOA)</u>				<u>Budget Authority</u>			
	<u>FY 2002 Actual</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>FY 2002 Actual</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>
<b>RDT&amp;E</b>								
DLA Direct Program	135,633	178,201	76,663	48,414	135,633	178,201	76,663	48,414
Defense Technology Analysis	5,626	5,017	5,209	5,279	5,626	5,017	5,209	5,279

Exhibit PB-1

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**FY 2004/2005**  
**DESCRIPTIVE SUMMARIES**  
**ADVISORY AND ASSISTANCE SERVICES**  
**DEFENSE LOGISTICS AGENCY**  
**(Dollars in Thousands)**

	<b>FY 02</b>	<b>FY 03</b>	<b>FY 04</b>	<b>FY 05</b>
	<b><u>Actual</u></b>	<b><u>Estimate</u></b>	<b><u>Estimate</u></b>	<b><u>Estimate</u></b>
<u>Appropriation: RDT&amp;E, DW</u>				
I. Management & Professional Support Services				
FFRDC Work	0	0	0	0
Non-FFRDC Work	0	0	0	0
Subtotal	0	0	0	0
II. Studies, Analysis, & Evaluation				
FFRDC Work	100	600	600	600
Non-FFRDC Work	0	0	0	0
Subtotal	100	600	600	600
III. Engineering & Technical Services				
FFRDC Work	0	0	0	0
Non-FFRDC Work	0	0	0	0
Subtotal	0	0	0	0
<b>TOTAL</b>	100	600	600	600
FFRDC Work	100	600	600	600
Non-FFRDC Work	0	0	0	0

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Exhibit PB-15