

**UNCLASSIFIED
FY 2003 BUDGET REVIEW**

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE: FEBRUARY 2002								
APPROPRIATION/BUDGET ACTIVITY: RTD&E, Defense-Wide/Budget Activity 7	Program Element: 0708011S Manufacturing Technology								
COST (MILLIONS)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	COST TO COMP	TOTAL
TOTAL PROGRAM ELEMENT	9.006	41.392	13.072	15.330	10.274	9.656	9.635	Cont	Cont
#1: Combat Rations	1.854	1.967	1.978	2.017	2.058	2.059	2.055	Cont	Cont
#2: Apparel Research Network (ARN)	2.274	2.989	3.010	3.007	2.999	3.000	2.993	Cont	Cont
#3: Procurement Readiness Optimization-Advanced Casting Technology (PRO-ACT)	4.021	2.305	2.319	2.322	2.405	2.499	2.494	-----	18.365
#4: Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)	0.857	1.306	1.965	1.990	2.013	2.098	2.093	-----	12.322
#5: Customer Value Industrial Plant Equipment (CV:IPE)	-----	1.393	1.403	1.202	0.799	-----	-----	-----	4.797
#6: Supply Chain Management (SCM)	-----	18.145	-----	-----	-----	-----	-----	-----	18.145
#7: Classified Programs (CP)	-----	-----	2.397	4.792	-----	-----	-----	-----	7.189
#8: ERIM Defense/Competitive Sustainment Initiative	-----	7.635	-----	-----	-----	-----	-----	-----	7.635
#9: Laser Additive Manufacturing (LAM)	-----	5.652	-----	-----	-----	-----	-----	-----	5.652
<p>A. Mission Description & Budget Item Justification: 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).</p> <p>#1. CORANET assures combat ration availability of specified variety, quality, and affordability to the Components through commercial-military integration, ration processing and packaging research, and menu variety and producibility improvement. CORANET is part of the Joint Defense Manufacturing Technology Program, Advanced Manufacturing Enterprise Strategic Plan.</p> <p>#2. ARN concentrates on achieving customer driven uniform manufacturing by establishing electronic links among all participants in the supply chain from the end user to the fabric supplier. The program is part of the Joint Defense Manufacturing Technology Program, Advanced Manufacturing Enterprise Strategic Plan.</p> <p>#3. PRO-ACT develops and delivers cost effective weapons parts. It also develops better casting processes. The program is part of the Joint Defense Manufacturing Technology Program.</p> <p>#4. PRO-FAST will develop ways to make forgings for land, sea, and air weapons that are better, cheaper, and faster to produce.</p>									

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<p>#5. CV:IPE will develop and implement lean concepts in a depot overhaul environment for Industrial Plant Equipment.</p> <p>#6. SCM will ensure the Agency stays 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.</p> <p>#7. CP - N/A</p> <p>#8. ERIM Defense/Competitive Sustainment Initiative will substantially reduce the cost of support for aging weapon systems by addressing the manufacturing requirements associated with producing parts for aging weapon systems.</p> <p>#9. LAM will develop a rapid manufacturing technology that produces high performance military and commercial components via laser additive manufacturing with reduced lead times and cost.</p>	

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<p>B. Program Change Summary:</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th colspan="3" style="text-align: center; border-bottom: 1px solid black;">COST IN MILLIONS</th> </tr> <tr> <th style="border-bottom: 1px solid black;"></th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2001</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2002</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2003</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget Submission</td> <td style="text-align: right;">9.006</td> <td style="text-align: right;">17.544</td> <td style="text-align: right;">18.093</td> </tr> <tr> <td>Adjustment to Appropriated Value</td> <td style="text-align: center;">-----</td> <td style="text-align: right;">+23.848</td> <td style="text-align: right;">- 5.021</td> </tr> <tr> <td>Congressional Rescission</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Defense Emergency Response Fund (DERF)</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> </tr> <tr> <td>Current Budget Submission</td> <td style="text-align: right;">9.006</td> <td style="text-align: right;">41.392</td> <td style="text-align: right;">13.072</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY 2001 reflects (+\$2.000 million) for the congressionally added Metalcasting program and IP/ManTech's fair share of Title IV reductions per Section 8086 of the FY 2001 Appropriations Act (-\$0.064 million), and its fair share of a government-wide rescission (-\$0.020 million). FY 2002 reflects congressionally added funding for the Supply Chain Management (SCM) program (+\$12.8 million); ERIM Defense/Competitive Sustainment Initiative (+\$7.7 million); Laser Additive Manufacturing (LAM)(+\$5.7 million), adjusted for Section 8123 Business Processes Reform (-\$0.274 million), Section 8032 (Federally Funded Research and Development Centers (FFRDC) (-\$0.035 million), and a General Reduction (-\$0.043 million). FY 2003 funding reflects realignment from SCM to Log R&D's CS project (-\$5.0 million); and adjustments (-\$0.021 million).</p>			COST IN MILLIONS				FY 2001	FY 2002	FY 2003	Previous President's Budget Submission	9.006	17.544	18.093	Adjustment to Appropriated Value	-----	+23.848	- 5.021	Congressional Rescission	-----	-----	-----	Defense Emergency Response Fund (DERF)	-----	-----	-----	Current Budget Submission	9.006	41.392	13.072
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RDT&E BUDGET PROJECT JUSTIFICATION SHEET (R-2a Exhibit)		DATE: FEBRUARY 2002								
APPROPRIATION/BUDGET ACTIVITY: RTD&E, Defense-Wide/Budget Activity 7		Program Element: 0708011S Manufacturing Technology								
COST (MILLIONS)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	COST TO COMP	TOTAL
#1: COMBAT RATIONS		1.854	1.967	1.978	2.017	2.058	2.059	2.055	Cont	Cont
<p>A. Mission Description and Justification</p> <p>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> <p>(U) Program Accomplishments and Plans: (U) FY 2001 Accomplishments: *Developed and evaluated new retort rack material for cost, durability. *Provided assistance for implementation of Multiple Unit Leak Detector (MULD) equipment in Meals Ready to Eat (MRE) plants. *Developed and implement leak-seal inspection equipment for trays. *Continued work on technology development and implementation. *Evaluated Ultrasonic Technology for cost/quality benefits in combat ration manufacturing. *Integrated Machine Vision capability to prevent seal defects on polymeric tray and Multivac pouch sealing equipment.</p> (U) FY 2002 Plans: *Implement retort rack material results. *Continue to implement MULD equipment in MRE plants. *Continue to develop and implement leak-seal inspection equipment for trays. *Restructure CORANET II based on proposals received from BAA responders. *Act on results from the evaluation of the Ultrasonic Technology for cost/quality benefits in combat ration manufacturing. *Continue the integration and prevention of seal defects. *Continue to examine industrial base opportunities with Partners. *Continue to develop new technology for transfer and implementation into plants in the industrial base. *Continue work on technology development and implementation. *Plan for follow-on development program to support combat rations industrial base. *Update strategic plans and business case for CORANET II. (U) FY 2003 Plans: *Continue work on technology development and implementation.										

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B. Program Change Summary: Restructure to emphasize implementation of an existing program.																																																																																
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C. Other Program Funding Summary: No funding dependencies. No projects cost over \$1.0M/year. No test articles. Related Programs: None. DERP - (N/A)																																																																																
D. Schedule Profile: The Combat Ration Network for Technology Implementation (CORANET) is the ManTech program managed at DLA Headquarters, through contracts from the Defense Supply Center, Philadelphia, to accomplish specific short-term projects (STPs). STPs usually continue < \$0.250 thousand/year, <\$0.500 thousand total.																																																																																
	FY 2001	FY 2002	FY 2003																																																																													
Quarters	1234	1234	1234																																																																													
CORANET Project Areas Identified:																																																																																
Implement Multiple Unit Leak Detection Equipment	XXXX	XX																																																																														
Machine Vision Inspection of Poly Trays	XXXX	XX																																																																														
Polymeric Tray Seal Integrity Testing	XXXX	XXXX	XX																																																																													
Polymeric Tray Demonstration Production	XXXX	XXXX	XXXX																																																																													
Retort Rack Material Improvement Study (Pouches)	XXXX	X																																																																														
Menu Variety vs. Cost Decision Matrix																																																																																
Modified Atmosphere Packaging Sensitive Items	XX																																																																															
Ultrasonic Seal/MRE Pouches Study	XX	XXXX	XXXX																																																																													
Horizontal F/F/Seal Ration Demo Production	XXXX	XXXX	XXXX																																																																													
Verification of MRE Specification	XXXX	XXXX	XXXX																																																																													
Retort Rack Material and Design Study (Trays)		XXX																																																																														

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RDT&E BUDGET PROJECT JUSTIFICATION SHEET (R-3 Exhibit)				DATE: FEBRUARY 2002				
APPROPRIATION/BUDGET ACTIVITY: RTD&E, Defense-Wide/Budget Activity 7				Program Element: 0708011S Manufacturing Technology				
A. Project Cost Breakdown								
Combat Rations								
Project Cost Categories				FY 2001	FY 2002	FY 2003		
a. Manufacturing Process Support Costs				1.854	1.967	1.978		
b. DERF				N/A	N/A	N/A		
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 2001	FY 2002	FY 2003	Budget to Complete	Total Program
				1.854	1.967	1.978	Cont	Cont
Ameriquel	Cost, No Fee	11/01/2001	TBD					
Georgia, Univ of	Cost, No Fee	11/01/2001	TBD					
NCFST	Cost, No Fee	11/01/2001	TBD					
Ohio State Univ	Cost, No Fee	11/01/2001	TBD					
R&DA	Cost, No Fee	11/01/2001	TBD					
Rutgers	Cost, No Fee	10/25/2001	TBD					
SAIC	Cost, No Fee	11/01/2001	TBD					
SOPAKCO	Cost, No Fee	11/01/2001	TBD					
Stegner	Cost, No Fee	11/01/2001	TBD					
Sterling	Cost, No Fee	10/25/2001	TBD					
TEES (TAMU)	Cost, No Fee	11/01/2001	TBD					
Tennessee, Univ of	Cost, No Fee	11/01/2001	TBD					
Wornick	Cost, No Fee	11/01/2001	TBD					
Washington State Univ	Cost, No Fee	11/01/2001	TBD					
Demonstration Site	Cost Share	12/01/2001	Demos Plus Projects					
Operator Rutgers Univ								
Government Furnished Property	N/A							

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COST (MILLIONS)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	COST TO COMP	TOTAL
#2: APPAREL RESEARCH NETWORK	2.274	2.989	3.010	3.007	2.999	3.000	2.993	Cont	Cont
<p>A. Mission Description and Justification:</p> <p>The Department of Defense, through the Defense Logistics Agency, purchases an average of \$1 billion of clothing and textile items per year. The current lead-time is up to 15 months and the current inventory acquisition value is \$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 technologies through its R&D and technology transfer mechanism. The goal of this program is to reduce the average apparel lead-time from 6 months to 6 weeks and to reduce the inventory carrying costs by 50%. A 50% reduction in carrying cost would further reduce the cost to the customer.</p> <p>(U) Program Accomplishments and Plans: (U) FY 2001 Accomplishments: *ARN Supply Chain Systems roll-out to Marine Corps Recruit Depot (MCRD) San Diego was completed and further roll-out to MCRD Parris Island is scheduled to take place at beginning of FY 2002. *With the completion of Army Recruit Training Centers, the R&D focus will be shifted to wholesale inventory and manufacturing area.</p> <p>(U) FY 2002 Plans: *Further roll-out to include all other services Recruit Training Centers and NEXCO stores. *3D Scanning integration to the supply chain system. *Implementation of the ARN Supply-Chain Automated Processing (ASAP) to the defense manufactures industrial base. *Continuation of the wholesale inventory drawdown and balanced inventory flow to all manufacturers.</p> <p>(U) FY 2003 Plans: *Expand the scope from the recruit items (50%) to include all C&T managed items and develop a virtual storeroom vision.</p>									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE: FEBRUARY 2002		
APPROPRIATION/BUDGET ACTIVITY: RTD&E, Defense-Wide/Budget Activity 7				Program Element: 0708011S Manufacturing Technology		
A. Project Cost Breakdown Apparel Research Network						
Project Cost Categories				FY 2001	FY 2002	FY 2003
a. Manufacturing Process Support Costs				2.274	2.989	3.010
b. DERF				N/A	N/A	N/A
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 2001	FY 2002	FY 2003
Note: All contracts are Fixed Cost or CPFF						
PDIT	CPFF/C	09/22/1997	N/A	2.274	2.989	3.010
Clemson University	CPFF/C	12/09/1994				
Cyberware	CPFF/C	05/10/1995				
EDI Integration	CPFF/C	12/13/1994				
Southern Tech	CPFF/C	12/09/1994				
Government Furnished Property N/A						

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<p>A. Mission Description and Justification:</p> <p>Metal castings are used whenever a complex metal shape is needed at an economical price. Many critical weapon system spares are castings. Castings frequently appear to be the cause of lead-time problems. The program demonstrates how to design, procure and implement castings to save time and money.</p> <p>PRO-ACT objectives include (1) development of teams for long-term solutions, tools and networks to aid the DoD casting supply chain; (2) identify and invest in critical tools to accelerate design and acquisition of weapon system castings; (3) develop and deploy continuously improving industry standards, best practices and guidelines for superior lead-times with short run and traditional production as supply chain tools; (4) deploy tools for sourcing and best value source selection, Tech Data Package modernization and process model capture and re-use; (5) provide a complete industry supply chain for robust sourcing and delivery of DoD metalcasting requirements-particularly in vanishing vendor and vanishing product scenarios; (6)demonstrate the economic superiority of cast components to meet weapons systems requirements.</p> <p>(U) Program Accomplishments and Plans: (U) FY 2001 Accomplishments: *Enhanced the technical knowledge of the DOD workforce via 10 seminars with over 200 persons enrolled. *Reviewed over 200 parts for cost savings. *Benchmarked 8 sites to establish best in class metrics (5 in conjunction with United Defense Limited Partners (UDLP) Crusader and 3 in conjunction with the Navy Sea Systems Command (NAVSEA) MK38 Handgrip Team. *Build and facilitate UDLP Crusader casting design teams to achieve weight and cost savings.</p> <p>(U) FY 2002 Plans: *Continue to convert high cost weldments and machined parts to cost effective castings. *Deploy an electronic casting design learning system, an ISO9000: 2000 Toolkit for metalcasters. *Worcester Polytechnic Institute (WPI)- Demo Prototype of the (Alloy Selection) Electronic Design Toolkit *University of Iowa (Uiowa) - Porosity Prediction Model Software.</p> <p>(U) FY 2003 Plans: *Non-Ferrous Founders Society (NFFS) - Tooling Database will be demonstrated to users, and transitioned to industry *Ohio State University (OSU) - Integrated CASTView system rollout with added features.</p>									

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	COST IN MILLIONS								
	FY 2001	FY 2002	FY 2003						
Previous President's Budget Submission	4.021	2.325	2.323						
Adjustment to Appropriated Value	-----	-0.020	-0.004						
Congressional Rescission	-----	-----	-----						
Defense Emergency Response Fund (DERF)	-----	-----	-----						
Current Budget Submission	4.021	2.305	2.319						
Change Summary Explanation: FY 2001 reflects congressionally added funds for the Metalcasting program (+\$2.0 million) minus (\$0.038 million) to reflect a pro rata share of congressional adjustments. FY 2002 reflects adjustments per Section 8123, Business Processes Reform/Management efficiencies (-\$0.015 million), Section 8032 (FFRDCs) (-\$0.002 million), and a General Reduction (-\$0.003 million). FY 2003 includes adjustments (-\$0.004 million).									
C. Other Program Funding Summary: No funding dependencies. DERP - N/A									
D. Schedule Profile:									
	FY 2001	FY 2002	FY 2003						
Quarters	1234	1234	1234						
Castings Advanced Technology - Integration Team (CAST-IT)	XXXX	XXXX	XXXX						
Advanced Design & Acquisition	XXXX	XXXX	XXXX						
Foundry Research	XXXX	XXXX	XXXX						

**UNCLASSIFIED
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)	DATE: FEBRUARY 2002																														
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COST (MILLIONS)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	COST TO COMP	TOTAL
#4: PROCUREMENT READINESS OPTIMIZATION-FORGING ADVANCED SYSTEM TECHNOLOGY (PRO-FAST)	0.857	1.306	1.965	1.990	2.013	2.098	2.093	-----	12.322
<p>A. Mission Description and Justification:</p> <p>Forgings are frequently identified as lead-time drivers. PRO-FAST will demonstrate readiness improvements by developing and applying innovative methods of designing, manufacturing, and buying weapon system spares through advanced forging technologies. Program will be executed through project teams, which include all elements of the forging supply chain. Program will result in the delivery of tools such as industry standards, best practices, guidelines, and productivity enhancements, which have enduring value.</p> <p>Program Accomplishments and Plans:</p> <p>FY 2001 Accomplishments:</p> <ul style="list-style-type: none"> *Extrude Hone Corporation conducted an experiment to forge a small aluminum aerospace component. Tooling was produced quickly and tried on a forging press to yield a rapid short run. *Ohio State University baselined two (2) Department of Defense contractors and identified ample opportunity for the introduction of lean manufacturing concepts on the forge shop floor. *FORGE-IT lead time demonstration process developed and targeted for deployment at Defense Supply Centers Richmond, Philadelphia, and Columbus and Ogden Air Logistics Center. *FORGE-IT Team produced listing of specifications for data search of forgings DLA-wide. *FORGE-IT Team prepared Forging Acquisition Seminar for deployment at supply centers. <p>FY 2002 Plans:</p> <ul style="list-style-type: none"> *The University of Toledo is to investigate and develop a framework for a national tooling database and concepts for dynamic partnering between customers and forges. *The Colorado School of Mines will start developing and deploying forging seminar modules in concert with FORGE-IT Team. *Ohio State University will continue assessing shop floor operations at Department of Defense contract forge shops to identify opportunities to install lean manufacturing processes. *FORGE-IT to potentially implement Technical and Enterprise Solutions at Defense Supply Richmond, Philadelphia, and Columbus, Ogden Air Logistics Center, and Aviation and Missile Command. *Rapid Solidification Processing Tooling is to roll out its first RSP Machine in FY 2002 with a production rate of 1 tool per hour. *Extrude Hone is to continue characterizing the performance of 3D printed materials in a forge. *Scientific Forming to assess and expand the implementation of forging simulation not only with respect to forging material flow but also with respect to tooling material behavior. 									

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<p>A. Mission Description and Justification: *Ohio State University, teamed with Sikorsky, Weber Metals, and Extrude Hone, will quantify rapid tooling concepts for short run production of H-60 Helicopter components by characterizing rapid tooling design and rapid tooling materials. Demonstrations will occur in 2002.</p> <p>(U) FY 2003 Plans: *Ohio State University will conduct demonstration & validation of forging cells; Colorado School of Mines will begin web assisted forging materials qualification, and University of Toledo will demonstrate dynamic supply chain partnering guidelines.</p> <p>B. Program Change Summary:</p> <table border="0" data-bbox="798 841 1323 1031"> <thead> <tr> <th></th> <th colspan="3">COST IN MILLIONS</th> </tr> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget Submission</td> <td>0.857</td> <td>1.316</td> <td>1.969</td> </tr> <tr> <td>Adjustment to Appropriated Value</td> <td>-----</td> <td>-0.010</td> <td>-0.004</td> </tr> <tr> <td>Congressional Rescission</td> <td>-----</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>Defense Emergency Response Fund (DERF)</td> <td>-----</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>Current Budget Submission</td> <td>0.857</td> <td>1.306</td> <td>1.965</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY 2002 reflects adjustments per Section 8123, Business Processes Reform/Management efficiencies (-\$0.008 million), Section 8032 (FFRDCs)(-\$0.001 million), and a General Reduction (-\$0.001 million). FY 2003 reflects adjustments (-\$0.004 million).</p> <p>C. Other Program Funding Summary: No funding dependencies. DERF - N/A</p> <p>D. Schedule Profile:</p> <table border="0" data-bbox="163 1222 1291 1328"> <thead> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> </tr> </thead> <tbody> <tr> <td>Quarters</td> <td>1234</td> <td>1234</td> <td>1234</td> </tr> <tr> <td>Technology Developments</td> <td>XXXX</td> <td>XXXX</td> <td>XXXX</td> </tr> <tr> <td>Spare Parts Lead Time Demonstration</td> <td>XXXX</td> <td>XXXX</td> <td>XXXX</td> </tr> </tbody> </table>												COST IN MILLIONS				FY 2001	FY 2002	FY 2003	Previous President's Budget Submission	0.857	1.316	1.969	Adjustment to Appropriated Value	-----	-0.010	-0.004	Congressional Rescission	-----	-----	-----	Defense Emergency Response Fund (DERF)	-----	-----	-----	Current Budget Submission	0.857	1.306	1.965		FY 2001	FY 2002	FY 2003	Quarters	1234	1234	1234	Technology Developments	XXXX	XXXX	XXXX	Spare Parts Lead Time Demonstration	XXXX	XXXX	XXXX
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COST (MILLIONS)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	COST TO COMP	TOTAL																																								
#5: CUSTOMER VALUE INDUSTRIAL PLANT EQUIPMENT (CV:IPE)	-----	1.393	1.403	1.202	0.799	-----	-----	-----	4.797																																								
<p>A. Mission Description and Justification: This program will improve the customer value of DLA's Industrial Plant Equipment (IPE) operations. IPE is the enabler for manufacturing and maintenance activities everywhere, such as Air Logistics Centers, Shipyards, Maintenance Depots and bases. DLA manages IPE, both new and rebuilds. Our customers are demanding shorter rebuild cycles and higher performance machines. We will reduce rebuild times by (1) developing cost estimating and scheduling tools based on mathematical models (neural networks, parametric models and simulation models), and integrating these tools with condition sensors (geometry, vibration, temperature, power, control response, lubricant condition) that gather data on machine parameters, so that fast, accurate cost estimates and schedules can be developed for any condition machine; (2) implementing Lean Manufacturing Principles in a maintenance environment. The goal of lean manufacturing is to eliminate waste in all its forms. Higher performance machines will be developed thru a toolbox to design and install high speed machining modules as a retro-fit on IPE.</p> <p>(U) Program Accomplishments and Plans: (U) FY 2001 Accomplishments: (U) FY 2002 Plans: Gather data for mathematical cost estimating models. Begin to implement lean principles. Start to design high speed machining modules. (U) FY 2003 Plans: Continue implementing lean principles and designing of high speed machining modules.</p> <p>B. Program Change Summary:</p> <table border="0"> <thead> <tr> <th></th> <th colspan="3">COST IN MILLIONS</th> </tr> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget Submission</td> <td>-----</td> <td>1.404</td> <td>1.404</td> </tr> <tr> <td>Adjustment to Appropriated Value</td> <td>-----</td> <td>-0.011</td> <td>-0.001</td> </tr> <tr> <td>Defense Emergency Response Fund (DERF)</td> <td>-----</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>Current Budget Submission</td> <td>-----</td> <td>1.393</td> <td>1.403</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY 2002 reflects adjustments per Section 8123, Business Processes Reform/Management efficiencies (-\$0.009 million), Section 8032 (FFRDCs) (-\$0.001 million), and a General Reduction (-\$0.001 million). FY 2003 reflects adjustments (-\$0.001 million).</p> <p>C. Other Program Funding Summary: No funding dependencies.</p> <p>D. Schedule Profile:</p> <table border="0"> <thead> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> </tr> </thead> <tbody> <tr> <td>Quarters</td> <td>1234</td> <td>1234</td> <td>1234</td> </tr> <tr> <td>Flow time reductions</td> <td>N/A</td> <td>XXXX</td> <td>XXXX</td> </tr> <tr> <td>High speed machining</td> <td></td> <td>XXXX</td> <td>XXXX</td> </tr> </tbody> </table>											COST IN MILLIONS				FY 2001	FY 2002	FY 2003	Previous President's Budget Submission	-----	1.404	1.404	Adjustment to Appropriated Value	-----	-0.011	-0.001	Defense Emergency Response Fund (DERF)	-----	-----	-----	Current Budget Submission	-----	1.393	1.403		FY 2001	FY 2002	FY 2003	Quarters	1234	1234	1234	Flow time reductions	N/A	XXXX	XXXX	High speed machining		XXXX	XXXX
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#6: Supply Chain Management (SCM)	-----	18.145	-----	-----	-----	-----	-----	-----	18.145																																				
<p>A. Mission Description and Justification:</p> <p>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> <p>B. Program Change Summary: This is a Congressional Add.</p> <table align="center"> <tr> <td></td> <td colspan="3">COST IN MILLIONS</td> </tr> <tr> <td></td> <td>FY 2001</td> <td>FY 2002</td> <td>FY 2003</td> </tr> <tr> <td>Previous President's Budget Submission</td> <td align="center">-----</td> <td align="center">7.500</td> <td align="center">5.000</td> </tr> <tr> <td>Adjustment to Appropriated Value</td> <td align="center">-----</td> <td align="center">+10.645</td> <td align="center">- 5.000</td> </tr> <tr> <td>Defense Emergency Response Fund (DERF)</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">-----</td> </tr> <tr> <td>Current Budget Submission</td> <td align="center">-----</td> <td align="center">18.145</td> <td align="center">-----</td> </tr> </table> <p>Change Summary Explanation: FY 2002 reflects congressionally added funds for the supply chain management program (+\$12.8 million) subsequent to a B/T internal realignment to the Log R&D PE to support CS (-\$2.0 million). FY 2002 also reflects adjustments for Section 8123, Business Processes Reform/Management efficiencies (-\$0.121 million), Section 8032 (FFRDCs) (-\$0.015 million), and a General Reduction (-\$0.019 million). FY 2003 reflects a realignment to the Log R&D PE to support CS.</p> <p>C. Other Program Funding Summary: No funding dependencies</p> <p>D. Schedule Profile:</p> <table align="center"> <tr> <td></td> <td>FY 2001</td> <td>FY 2002</td> <td>FY 2003</td> </tr> <tr> <td> Quarters</td> <td align="center">1234</td> <td align="center">1234</td> <td align="center">1234</td> </tr> <tr> <td>Issue competitive solicitation</td> <td align="center">XXXX</td> <td align="center">XXXX</td> <td></td> </tr> </table>											COST IN MILLIONS				FY 2001	FY 2002	FY 2003	Previous President's Budget Submission	-----	7.500	5.000	Adjustment to Appropriated Value	-----	+10.645	- 5.000	Defense Emergency Response Fund (DERF)	-----	-----	-----	Current Budget Submission	-----	18.145	-----		FY 2001	FY 2002	FY 2003	Quarters	1234	1234	1234	Issue competitive solicitation	XXXX	XXXX	
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#7: Classified Programs (CP)	-----	-----	2.397	4.792	-----	-----	-----	-----	7.189
<p>A. Mission Description and Justification:</p> <p>N/A</p> <p>(U) Program Accomplishments and Plans: (U) FY 2001 N/A (U) FY 2002 Plans: N/A (U) FY 2003 Plans: N/A</p> <p>B. Program Change Summary: N/A</p> <p>President's Budget Submission Adjustment to Appropriated Value Defense Emergency Response Fund (DERF) Current Budget Submission</p> <p>Change Summary Explanation: N/A</p> <p>C. Other Program Funding Summary: No funding dependencies</p> <p>D. Schedule Profile: N/A</p>									

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#8: ERIM Defense/Competitive Sustainment Initiative				-----	7.635	-----	-----	-----	-----	-----	-----	7.635																								
<p>A. Mission Description and Justification: 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. There is a related project (P.E. 060712S # 10) that 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> <p>The ManTech portion of this program will specifically address the manufacturing problems facilities associated with sustainment, for example, qualifying a new processes when the original process no longer exists.</p> <p>(U) Program Accomplishments and Plans: (U) FY 2001 N/A (U) FY 2002 Plans: Identify manufacturing areas that must be addressed to improve sustainment. Award pilots that address manufacturing areas. (U) FY 2003 Plans: N/A</p> <p>B. Program Change Summary: This is a Congressional add to enhance manufacturing capability for Sustainment in FY 2002 (+\$7.7 million) less congressional adjustments (-\$0.065 million). It complements the broader scope Log R&D program by addressing the manufacturing problems.</p> <table border="0" style="width: 100%;"> <tr> <td></td> <td align="center">FY 2001</td> <td align="center">FY 2002</td> <td align="center">FY 2003</td> </tr> <tr> <td>Previous President's Budget Submission</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">-----</td> </tr> <tr> <td>Adjustment to Appropriated Value</td> <td align="center">-----</td> <td align="center">7.635</td> <td align="center">-----</td> </tr> <tr> <td>Congressional Rescission</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">-----</td> </tr> <tr> <td>Defense Emergency Response Fund (DERF)</td> <td align="center">-----</td> <td align="center">-----</td> <td align="center">-----</td> </tr> <tr> <td>Current Budget Submission</td> <td align="center">-----</td> <td align="center">7.635</td> <td align="center">-----</td> </tr> </table> <p>Change Summary Explanation: Congressional add to the Manufacturing Technology Program to accommodate manufacturing issues associated with sustainment.</p> <p>C. Other Program Funding Summary: Complements Log R&D Competitive Sustainment (P.E. 0603712S).</p>														FY 2001	FY 2002	FY 2003	Previous President's Budget Submission	-----	-----	-----	Adjustment to Appropriated Value	-----	7.635	-----	Congressional Rescission	-----	-----	-----	Defense Emergency Response Fund (DERF)	-----	-----	-----	Current Budget Submission	-----	7.635	-----
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D. Scheduled Profile:		FY 2001		FY 2002		FY 2003				
Quarters		1234		1234		1234				
CBD announcement				N/A		N/A				
Award				X						
Performance				XX		XXXX				

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#9: Laser Additive Manufacturing (LAM)				-----	5.652	-----	-----	-----	-----	-----	-----	5.652

A. Mission Description and Justification:

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. 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.

(U) Program Accomplishments and Plans:

(U) FY 2001 N/A

(U) FY 2002 Plans:

*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.

*Transition the LAM process for as many parts as possible

(U) FY 2003 Plans: N/A

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