Exhibit R-2, RDT&E Budget Item J	Justification	n: PB 2011 D	efense Logi	stics Agency	1				DATE: Feb	ruary 2010					
<b>APPROPRIATION/BUDGET ACTIV</b> 0400: Research, Development, Test BA 7: Operational Systems Develop	<b>ITY</b> & Evaluatio ment	n, Defense-I	Nide	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)											
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost				
Total Program Element	53.040	46.271	21.798	0.000	21.798	22.136	22.391	22.755	23.128	Continuing	Continuing				
1: Combat Rations (CORANET)	1.725	1.817	1.924	0.000	1.924	1.958	1.984	2.018	2.051	Continuing	Continuing				
2: Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Reseach Network)	3.857	3.946	4.220	0.000	4.220	4.294	4.350	4.423	4.501	Continuing	Continuing				
3: Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)	2.546	2.453	2.607	0.000	2.607	2.626	2.644	2.690	2.736	Continuing	Continuing				
4: Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)	1.182	1.145	1.230	0.000	1.230	1.252	1.268	1.290	1.313	Continuing	Continuing				
5: Material Acquisition Electronics (MAE)	10.372	10.065	10.839	0.000	10.839	11.030	11.172	11.364	11.560	Continuing	Continuing				
6: Battery Network (BATTNET)	0.000	0.981	0.978	0.000	0.978	0.976	0.973	0.970	0.967	Continuing	Continuing				
7: Other Congressional Adds (OCAs)	33.358	25.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing				

#### A. Mission Description and Budget Item Justification

The Defense Logistics Agency (DLA) Industrial Preparedness Manufacturing Technology (IP ManTech) Program supports the development of a responsive, worldclass manufacturing capability to affordably meet the warfighters' needs throughout the defense system life cycle. IP ManTech: Provides the crucial link between invention and product application to speed technology transitions. Matures and validates emerging manufacturing technologies to support low-risk implementation in industry and Department of Defense (DoD) facilities, e.g. depots and shipyards. Addresses production issues early by providing timely solutions. Reduces risk and positively impacts system affordability by providing solutions to manufacturing problems before they occur.

DLA ManTech includes Combat Rations Network for Technology Implementation (CORANET), Customer Driven Uniform Manufacturing (CDUM), Procurement Readiness Optimization—Advanced Casting Technology (PRO-ACT), Procurement Readiness Optimization—Forging Advance System Technology (PRO-FAST),

#### UNCLASSIFIED Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Defense Logistics Agency **DATE:** February 2010 **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech) BA 7: Operational Systems Development and Material Acquisition Electronics (MAE) and Battery Nework (BATTNET). As well as, Other Congressional Add (OCA) programs that are Congressionally Directed efforts. B. Program Change Summary (\$ in Millions) FY 2009 FY 2010 FY 2011 Base FY 2011 OCO FY 2011 Total 55.280 Previous President's Budget 20.514 0.000 0.000 0.000 Current President's Budget 53.040 46.271 21.798 0.000 21,798 21.798 **Total Adjustments** -2.240 25.757 21.798 0.000 Congressional General Reductions -0.136 0.000 Congressional Directed Reductions Congressional Rescissions 0.000 0.000 Congressional Adds 26.000 Congressional Directed Transfers 0.000 Reprogrammings -1.678 0.000 • SBIR/STTR Transfer -0.562 0.000 • FY 2011 Other Program Changes 0.000 0.000 21.798 0.000 21.798 • FY 2010 Economic Assumptions -0.009 0.000 0.000 0.000 0.000 • FY 2010 Federally Funded Research and 0.000 -0.098 0.000 0.000 0.000 **Development Center Reduction** Congressional Add Details (\$ in Millions, and Includes General Reductions) FY 2009 FY 2010 Project: 7: Other Congressional Adds (OCAs) Congressional Add: Cellulosic Derived Biofuels Research Project 3.988 0.000 Congressional Add: Cooper Based Casting Technology Applications (CBCT) 2.792 1.592 Congressional Add: Improved Collapsible Urethane Fuel Storage (ICU-FST) 1.596 0.000 Congressional Add: Industrial Base Innovation Fund 19.148 19.895 Congressional Add: Northwest Defense Manufacturing Initiative 1.596 1.989 Congressional Add: Ultra-high Strength Steele for Landing Geer 1.995 1.592 Congressional Add: Vet-Biz Initiative for National Sustainment (VINS) 1.995 0.796

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Defense Lo	ogistics Agency	DATE:	February 2010	)
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacto	uring Technology (	IP ManTech)	
Congressional Add Details (\$ in Millions, and Includes Gen	eral Reductions)		FY 2009	FY 2010
Congressional Add: Wiring Integrity Technology		-	0.248	0.000
	Congressional Add Subto	tals for Project: 7	33.358	25.864
	Congressional Add Tota	als for all Projects	33.358	25.864
Change Summary Explanation FY 2009- 26 PA OMNIBUS Reprogramming Action: \$1.528M FY 2009 Economic Assumptions: \$.150M FY 2010 Economic Assumptions: \$.223M FY 2010 Federally Funded Research and Development Center	Reduction: \$.020M			

Exhibit R-2A, RDT&E Project Just	ification: PE	3 2011 Defei	nse Logistics	s Agency					DATE: February 2010						
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	<b>ITY</b> & Evaluation ment	n, Defense-V	Vide	R-1 ITEM N PE 070801 <sup>-</sup> <i>Manufactur</i>	OMENCLA 1S: Industria ing Technolo	<b>FURE</b> I Preparedne ogy (IP Man1	ess Tech)	PROJECT 1: Combat I	Rations (CO						
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	2014 FY 2015 Cost To timate Estimate Complete						
1: Combat Rations (CORANET)	1.725	1.817	1.924	0.000	1.924	1.958	1.984	2.018	.018 2.051 Continuing Continuir						
Quantity of RDT&E Articles															

#### A. Mission Description and Budget Item Justification

In FY 2008, the Defense Supply Center Philadelphia (DSCP) sold \$4.45 billion in subsistence goods and services to the Department of Defense, making it DSCP's largest supply chain. Sales in subsistence continue to grow, largely due to requirements for overseas contingency operations. The Combat Rations Program is focused on improving the manufacturing technologies related to the production and distribution of the combat rations that are at the forefront of these operations, including Meals Ready to Eat (MREs) as well as Unitized Group Rations (UGR). The objectives are increased readiness, improved quality, and better ration variety. CORANET research efforts also help control the cost of the combat rations. The CORANET program engages all elements of the supply chain including producers, military services, Army Natick, United States Department of Agriculture (USDA), Food and Drug Administration (FDA), DLA, DSCP and academia to research and transition improved technologies for operational rations.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Combat Rations Accomplishments/Plans	1.725	1.817	1.924	0.000	1.924
<ul> <li>FY 2009 Accomplishments: Sonic seal transitioned into the final ration producer. New retort rack material made available to producers. Quality improvements to MRE components increase acceptability.</li> <li>FY 2010 Plans: Explore processes to infuse vitamins into components. Expand the availability of packaging material and aide in the development of new formulas to shelf stable products.</li> </ul>					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logis	stics Agency			DATE: Febr	uary 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	ess Tech)	PROJECT 1: Combat I	Rations (COI	RANET)		
B. Accomplishments/Planned Program (\$ in Millions)	1					
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Research new MRE packaging configuration. Improve the therm inspection procedures.	no-processing process. Streamline					
Accom	olishments/Planned Programs Subtotals	1.725	1.817	1.924	0.000	1.924
<ul> <li>D. Acquisition Strategy N/A</li> <li>E. Performance Metrics</li> <li>CORANET is a community-of- practice, which includes all military are multiple university research partners, and the combat ration manufal ensure surge production capability, maintain food safety, improve the result the anticipated Percent of completed demonstration programs</li> <li>Strategic Plan Long-term Performance Targets – The average technology</li> <li>Annual Performance Targets – FY 2010: 50% of programs transition</li> </ul>	nd federal organizations involved in the d cturers themselves. The major objective e quality and produce ability of combat ra s transitioning per year would be 50%. nical readiness level of a CORANET proje ning.	levelopment of this prog ations, and/o ect is 6.5. T	t, procureme iram is to per or help make	nt and overs form short te combat ratio	ight of comb erm projects ons affordab ng the 50%	oat rations, that le. As a is good.

Exhibit R-3, RDT&E	Project Co	o <mark>st Analysis:</mark> PE	8 2011 Defer	nse Logisti	cs Agency					DA	<b>TE:</b> Februa	ary 2010	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	UDGET AC elopment, stems Dev	<b>CTIVITY</b> Test & Evaluatior elopment	n, Defense-V	Vide	R-1 ITEN PE 0708 <i>Manufac</i>	<b>I NOMENC</b> 011S: Indu- turing Tech	<b>CLATURE</b> strial Prepa nology (IP	aredness ManTech)	PROJ 1: Cor	ECT mbat Rat	ions (COR/	ANET)	
Support (\$ in Millior	ns)		_								7		
				FY 2	010	FY 2 Ba	2011 se	FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	A Cost I	ward Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Clemson University Clemson, South Carolina	0.020	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Dairy Management Incorporated Des Plaines, Illinois	0.020	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Master Packaging Tampa, Florida	0.020	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/CPFF	Michigan State University East Lansing, Michigan	0.197	0.200	Dec 2009	0.250	Dec 2010	0.000		0.250	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Rutgers State University of New Jersey Division of Grants & Contract Accounting New Brunswick, New Jersey	1.917	0.850	Dec 2009	0.750	Dec 2010	0.000		0.750	Continuing	Continuing	Continuing
f. Manufacturing Process Support Costs	C/CPFF	SOPAKO, Incorporated Mullins, South Carolina	0.147	0.026	Dec 2009	0.032	Dec 2010	0.000		0.032	Continuing	Continuing	Continuing
g. Manufacturing Process Support Costs	C/CPFF	University of Illinois	0.035	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E	Project Co	o <b>st Analysis:</b> PE	3 2011 Defe	nse Logisti	cs Agency						DA	<b>ATE:</b> Februa	ary 2010	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	UDGET AC elopment, stems Dev	<b>TIVITY</b> Test & Evaluation relopment	n, Defense-I	Wide	<b>R-1 ITEN</b> PE 07080 <i>Manufact</i>	<b>I NOMENC</b> 011S: Indu turing Tech	<b>CLATURE</b> strial Prepa nology (IP	aredness ManTech)		PROJEC <sup>-</sup> 1: Comba	r t Rati	ions (CORA	NET)	
Support (\$ in Millior	IS)											_		
				FY	2010	FY 2 Ba	2011 Ise	FY 2 OC	011 :O	FY 2 Tot	011 al			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Aware Date	d Co	st	Cost To Complete	Total Cost	Target Value of Contract
		Urbana, Illinois												
h. Manufacturing Process Support Costs	C/CPFF	University of Tennessee Knoxville, Tennessee	0.523	0.200	Dec 2009	0.250	Dec 2010	0.000			0.250	Continuing	Continuing	Continuing
i. Manufacturing Process Support Costs	C/CPFF	Texas Engineering Experiment Station, Office of Sponsored Research, Texas A&M University College Station, Texas	0.876	0.250	Dec 2009	0.250	Dec 2010	0.000			0.250	Continuing	Continuing	Continuing
j. Manufacturing Process Support Costs	C/CPFF	Cadillac Products Incorporated Troy, Michigan	0.035	0.000		0.000		0.000			0.000	Continuing	Continuing	Continuing
k. Manufacturing Process Support Costs	C/CPFF	Ohio State University Research Foundation Columbus, Ohio	0.035	0.000		0.000		0.000			0.000	Continuing	Continuing	Continuing
I. Manufacturing Process Support Costs	C/CPFF	Oregon Freeze Dry Incorporated Albany, Oregon	0.035	0.000		0.000		0.000			0.000	Continuing	Continuing	Continuing
m. Manufacturing Process Support Costs	C/CPFF	Research and Development Associates	0.083	0.100	Dec 2009	0.150	Dec 2009	0.000			0.150	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E	Project Co	ost Analysis: PE	2011 Defei	nse Logistio	cs Agency						DA	TE: Februa	ary 2010	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	UDGET AC elopment, stems Deve	CTIVITY Test & Evaluation elopment	n, Defense-V	Vide	R-1 ITEN PE 0708 <i>Manufac</i>	I NOMENC 011S: Indu turing Tech	LATURE strial Prepa nology (IP	redness ManTech)		PROJECT 1: Combat	Rati	ions (CORA	NET)	
Support (\$ in Million	IS)		Г					EV 0				1		
				FY 2	010	FY 2 Ba	2011 se	FY 20 OC	011 O	FY 20	)11 al			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Awa Dat	rd e Cos	st	Cost To Complete	Total Cost	Target Value of Contract
		San Antonio, Texas												
n. Manufacturing Process Support Costs	C/CPFF	Sterling Foods, Limited San Antonio, Texas	0.035	0.000		0.000		0.000		(	0.000	Continuing	Continuing	Continuing
o. Manufacturing Process Support Costs	C/CPFF	Virginia Polytechnic Institute and State University Blacksburg, Virginia	0.117	0.100	Dec 2009	0.100	Dec 2010	0.000		(	0.100	Continuing	Continuing	Continuing
p. Manufacturing Process Support Costs	C/CPFF	Washington State Universtiy Pullman, Washington	0.051	0.000		0.000		0.000		(	0.000	Continuing	Continuing	Continuing
q. Manufacturing Process Support Costs	C/CPFF	Logistics Management Institute McLean, Virginia	0.060	0.091	Dec 2009	0.142	Dec 2010	0.000		0	).142	Continuing	Continuing	Continuing
		Subtotal	4.206	1.817		1.924		0.000		1	.924			
Remarks														

Exhibit R-3, RDT&E Project Cost Analysis: PB	2011 Defens	se Logistic	cs Agency			C	ATE: Febru	ary 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation BA 7: Operational Systems Development	n, Defense-W	ïde	R-1 ITEI PE 0708 <i>Manufac</i>	M NOMENCLATURE 3011S: Industrial Prep sturing Technology (IF	<b>PROJECT</b> 1: Combat Rations (CORANET)					
	Total Prior	EV 20	040	FY 2011	FY 2011	FY 2011	Cost To	Total Cost	Target Value of	
Project Cost Totals	4.206	1.817	010	1.924	0.000	1.92		Total Cost	Contract	
Remarks										
			UNCL	_ASSIFIED						

nibit R-4, RDT&E Schedule Profile: PB 2011	Defe	nse	Log	isti	cs /	٩ge	ency	y																	DA	TE	: F
<b>PROPRIATION/BUDGET ACTIVITY</b> 00: Research, Development, Test & Evaluation, 7: Operational Systems Development	Defe	ense	-Wi	de			R Pl M	<b>-1 I</b> E 0 lanu	TEI 708 Jfac	<b>M N</b> 801* sturi	<b>0N</b> 1S: ing	IEN Ind Tec	l <b>CL</b> usti hnc	<b>ATI</b> rial olog	JRE Prep y (IP	areo Ma	dne nTe	ss ech)			<b>PF</b> 1:	<b>?О.</b> Со	JEC mb	CT at F	Rati	ions	s (C
		FY	200	9	F	Y 2	201	0	F	-Y 2	201	1	F	Y 2	012		FY	201	3	F	Y 2	014	4	F	Y 2	201	5
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	l 1	2	3	4	1	2	3	4	1	2	3	4
Vitamin Encapsulation Cheese Spread																											
Transition Projects																											
New Short Term Projects																											
Oxygen Absorbing Packaging Materials																											
Knurled Seal Heat Bar Technology																											
New Formula MRE Shelf Stable Pocket Sandwich																											
Technology Transition Retort Racks																											
Acceptance Test for Retort Pouch Material																											
Ultra High Pressure infused Fruit																											
Identify, Define, Review and Implement Research Activities																											
		_				L					. <u> </u>												لــــــــــــــــــــــــــــــــــــــ		. <u> </u>	L	

xhibit R-4A, RDT&E Schedule Details: PB 2011 Defense Logistics	A, RDT&E Schedule Details: PB 2011 Defense Logistics Agency ATION/BUDGET ACTIVITY R-1 ITEM NOMEN						
P <b>PROPRIATION/BUDGET ACTIVITY</b> 100: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	L <b>ATURE</b> trial Preparednes oology (IP ManTeo S	s ch)	PROJEC 1: Comba	ECT abat Rations (CORANET)			
	[	St	art		Er	nd	
Event		Quarter	Yea	ır	Quarter	Year	
Vitamin Encapsulation Cheese Spread		1	200	9	4	2010	
Transition Projects		1	200	9	4	2015	
New Short Term Projects		1	200	)9	4	2015	
Oxygen Absorbing Packaging Materials		1	200	)9	1	2009	
Knurled Seal Heat Bar Technology		1	200	9	4	2009	
New Formula MRE Shelf Stable Pocket Sandwich		1	200	9	1	2010	
Technology Transition Retort Racks		1	200	9	4	2010	
Acceptance Test for Retort Pouch Material		1	200	9	1	2010	
Ultra High Pressure infused Fruit		1	200	9	1	2011	
Identify, Define, Review and Implement Research Activities	1	200	9	4	2015		

Exhibit R-2A, RDT&E Project Just	ification: PE	3 2011 Defei	nse Logistics	s Agency	xhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics Agency													
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	Vide	<b>R-1 ITEM N</b> PE 070801 <i>Manufactur</i>	IOMENCLA 1S: Industria ing Technolo	<b>FURE</b> I Preparedno ogy (IP Man1	PROJECT 2: Custome (CDUM) (Pr Network)	<b>PROJECT</b> : Customer Driven Uniform Manufacturing CDUM) (Previously called Apparel Reseach letwork)												
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	2014 FY 2015 Cost To Total imate Estimate Complete Cost									
2: Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Reseach Network)	3.857	3.946	4.220	0.000	4.220	4.294	4.350	4.423	4.501	Continuing	Continuing							
Quantity of RDT&E Articles																		

#### A. Mission Description and Budget Item Justification

The Department of Defense, through the Defense Logistics Agency, purchased \$2.34 billion of clothing and textile items in FY 2008. The lead-time is up to 15 months and the current inventory acquisition value is over \$1.4 billion. The current focus of DLA military clothing research is Customer Driven Uniform Manufacturing (CDUM). CDUM explores the application of advanced manufacturing and information technologies and process reengineering to the end-to-end management of clothing and individual equipment (CIE). CDUM is focusing on item level radio frequency identification device (RFID) tagging to provide rapid response, asset visibility and improved agility tailored to the supply and sustainment of forces directly at the strategic and tactical levels of operations. This technology solution has been demonstrated to transform inventory control, materiel management, distribution, and warehousing so that critical Clothing and Textiles (C&T) items can be automatically tracked and item information available throughout the supply chain to include not only the manufacturers, but the upstream fabric and materials suppliers. Additional CDUM initiatives will include Army/DSCP shared asset visibility, Central Issue Facility (CIF) process reengineering and improved product performance and quality improvement.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Customer Driven Uniform Manufacturing Accomplishments/Plans	3.857	3.946	4.220	0.000	4.220
FY 2009 Accomplishments: Item Level RFID Pilots at CIE Manufacturing Locations. CDUM Shade Instrument Correlation Study.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logisti	cs Agency		DATE: Feb	DATE: February 2010					
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)	PROJECT 2: Custome (CDUM) (F Network)	r Driven Uni≀ Previously cal	form Manufa 'led Apparel I	cturing Reseach				
B. Accomplishments/Planned Program (\$ in Millions)									
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total				
FY 2010 Plans: Supply Chain Process Reengineering and Advanced Technology f Asset Visibility and Central Issue Facility Process Reengineering N Performance and Quality Improvement.	or Military Clothing Shared Services Manufacturing Methods for Product								
FY 2011 Base Plans: CDUM II New Initiatives.									
Accompli	shments/Planned Programs Subtotals 3.85	3.946	4.220	0.000	4.220				
C. Other Program Funding Summary (\$ in Millions) N/A D. Acquisition Strategy N/A									
<b>E. Performance Metrics</b> The CDUM program focus is on clothing and individual equipment (CI accuracy through reductions in adjustments.	E). The cost benefit analysis for the RFID initiati	ve has demor	istrated impro	ovements in	inventory				
The documented inventory adjustment reduction is from 6.64% to .2%	of total inventory. Cost benefit analyses are pe	formed on CI	)UM initiative	⊧s on an ong	oing basis.				

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Defense Logis	stics Agency		DATE: February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)	PROJECT 2: Custome (CDUM) (P Network)	er Driven Uniform Manufacturing Previously called Apparel Reseach
Support (\$ in Millions)			

	,		ſ							1			
						FY 2	2011	FY 2	011	FY 2011			
				FY 2	010	Ba	se	OC	0	Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Production Data Integration Technologies Long Beach, California	5.400	1.400	Mar 2010	1.500	Mar 2010	0.000		1.500	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	AdvanTech Annapolis, Maryland	4.000	1.267	Mar 2010	1.300	Mar 2011	0.000		1.300	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Human Solutions NA, Incorporated Dearborn, Michigan	0.600	0.150	Mar 2010	0.150	Mar 2011	0.000		0.150	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	BPA	Logistics Management Institute McLean, Virginia	1.600	1.000	Mar 2010	1.137	Mar 2011	0.000		1.137	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Atlantic Diving Supply Virginia Beach, VA	0.000	0.129	Mar 2010	0.133	Mar 2011	0.000		0.133	Continuing	Continuing	Continuing
		Subtotal	11.600	3.946		4.220		0.000		4.220			
Remarks								<u> </u>					

Exhibit R-3, RDT&E Project Cost Analysis: PB	2011 Defens	se Logistic	s Agency			D	ATE: Febru	ary 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluatior BA 7: Operational Systems Development	n, Defense-W	ïde	R-1 ITEN PE 07080 <i>Manufact</i>	I NOMENCLATUR D11S: Industrial Pr turing Technology	RE eparedness (IP ManTech)	PROJECT 2: Customer L (CDUM) (Prev Network)	Driven Unifo viously calle	rm Manufac d Apparel R	turing eseach
	Total Prior Years Cost	FY 20	010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	11.600	3.946		4.220	0.000	4.220			
								_	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 I	Defer	nse	Lo	gist	tics	Age	enc	;y																			DA	TE	:Fe	ebruary 2010
APPROPRIATION/BUDGET ACTIVITYR-1 ITEM NOMENCLATUREPROJEC0400: Research, Development, Test & Evaluation, Defense-WidePE 0708011S: Industrial Preparedness2: CustonBA 7: Operational Systems DevelopmentManufacturing Technology (IP ManTech)(CDUM)Network)													CT omei (Pr	r Di evi	rive ous	n L sly c	Iniform Manufacturing called Apparel Reseach													
	09		FY	201	10		FY	20	11		FY	′ 20	12		F١	20	)13		F	Y 2	201	4	F	Y 2	201	5				
	1	2	3	4	1	2	3	4	1	2	2 3	3 4	4	1 2	2 3	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Supply Chain Process Reengineering and Alfor Military Clothing	-																													
Shared Army and DSCP Asset Visibility and CIF Process Reengineering																														
Manufacturing Methods for Product Performance and Quality Improvement																														
Transition to CDUM II Prototype Implementations																														
CDUM II New Initiatives					1																									

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Defense Lo	4A, RDT&E Schedule Details: PB 2011 Defense Logistics Agency       DA         RIATION/BUDGET ACTIVITY earch, Development, Test & Evaluation, Defense-Wide rational Systems Development       R-1 ITEM NOMENCLATURE PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)       PROJECT 2: Customer Dru (CDUM) (Previo Network)         Schedule Details       Schedule Details       Start       2         Up Chain Process Reengineering and AIT for Military Clothing       1       2009         ed Army and DSCP Asset Visibility and CIF Process Reengineering       1       2009         Ifacturing Methods for Product Performance and Quality Improvement       1       2010			DATE: Febru	DATE: February 2010				
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wi BA 7: Operational Systems Development	de <b>R-1 ITEM NOMEN</b> PE 0708011S: Indu Manufacturing Tech	CLATURE Istrial Preparedness Inology (IP ManTec	h) (CDUM Network	<b>CT</b> omer Driven Unifo ) (Previously calle k)	rm Manufacturing d Apparel Resead				
	Schedule Deta	ils							
		Sta	Er	nd					
Event		Quarter	Year	Quarter	Year				
Supply Chain Process Reengineering and AIT for Military	Clothing	1	2009	4	2012				
Shared Army and DSCP Asset Visibility and CIF Process	Reengineering	1	2009	4	2012				
Manufacturing Methods for Product Performance and Qua	ality Improvement	1	2010	4	2012				
Transition to CDUM II Prototype Implementations		1	2012	4	2014				
CDUM II New Initiatives		1	2012	4	2015				

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Exhibit R-2A, RDT&E Project Just	tification: Pl	3 2011 Defei	nse Logistics	s Agency					DATE: Feb	ruary 2010	
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	<b>/ITY</b> t & Evaluatio oment	n, Defense-V	Vide	<b>R-1 ITEM N</b> PE 070801 <i>Manufactur</i>	IOMENCLA <sup>-</sup> 1S: Industria ing Technolo	TURE Il Preparedno ogy (IP Man 1	ess Tech)	PROJECT 3: Procuren Advanced S	nent Readin System Tech	ess Optimiza nology (PRC	ation- D-ACT)
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
3: Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)	2.546	2.453	2.607	0.000	2.607	2.626	2.644	2.690	2.736	Continuing	Continuing
Quantity of RDT&E Articles											

#### A. Mission Description and Budget Item Justification

Weapon system spare parts which use castings are responsible for a disproportionate share of backorders. Cast parts are 2% of National Stock Numbered parts but represent 4% of all backorders, and when only the oldest backorders are considered, up to 19% of them are castings. This program develops innovative technology and processes to improve the procurement, manufacture, and design of weapon system spare parts which use castings. The Procurement Readiness Optimization-Advanced Casting Technology (PRO-ACT) program takes a systems view and considers not only the Defense Logistics Agency (DLA) perspective but also the Military Service Engineering Support Activities (ESA) which DLA works with to solve technical issues, as well as the industrial supply base. The program has three components: Rapid Acquisition, Quality, and Cost Effectiveness.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Procurement Readiness Optimization-Advanced Casting Technology Accomplishments/Plans	2.546	2.453	2.607	0.000	2.607
<i>FY 2009 Accomplishments:</i> There are 20,000 tools in the Defense Tooling Database, a 25% increase over last year. Pushing \$1.5 million in solicitations per month (275 total solicitations in the last year) to foundries with existing casting tooling. Out of the 275 solicitations, the companies confirmed that they received an award on 141 of the 275. Furthermore, the awardees were not the previous supplier in 81 of those awards. In terms of cost savings – comparing the dollar value at the award price against the dollar value at the previous price, the program achieved a cost savings on this sample of 141 orders of \$786K. Completed digital radiography standard for aluminum castings.					
	<u> </u>				

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistic	cs Agency			DATE: Feb	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedne Manufacturing Technology (IP ManTe	ss ech)	PROJECT 3: Procuren Advanced S	nent Readine System Tech	ess Optimiza nology (PRC	tion- D-ACT)
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Develop technology to predict service life performance of steel cas for E357 sand cast aluminum for aerospace castings.	tings. Develop statistical properties					
FY 2011 Base Plans: Completed digital radiography standard for investment steel casting steels that can substituted for titanium casting with no weight pena	gs. Develop high strength cast Ity with substantial cost savings.					
Accomplis	shments/Planned Programs Subtotals	2.546	2.453	2.607	0.000	2.607

#### C. Other Program Funding Summary (\$ in Millions)

N/A

#### D. Acquisition Strategy

Competitive Broad Agency Announcement (BAA) evaluations completed and this contract awarded competitively. The current contract reaches its funding ceiling October 2010. A similar acquisition strategy is planned the follow-on work in the out years.

#### **E. Performance Metrics**

This program has a business case that justifies the investment in terms of economic and readiness benefits.

Exhibit R-3, RDT&E	Project Co	ost Analysis: PB	2011 Defer	nse Logisti	cs Agency					D	ATE: Febru	ary 2010	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	UDGET AC velopment, vstems Dev	<b>CTIVITY</b> Test & Evaluatior elopment	n, Defense-V	Vide	R-1 ITEN PE 0708 <i>Manufac</i>	<b>1 NOMENC</b> 011S: Indu turing Tech	<b>LATURE</b> strial Prepa nology (IP l	redness ManTech)	<b>PF</b> 3: <i>Ac</i>	ROJECT Procuremer Ivanced Sys	nt Readines tem Techno	s Optimizat blogy (PRO-	ion- ·ACT)
Support (\$ in Million	ns)		-								7		
				FY 2	010	FY 2 Ba	2011 se	FY 20 OC	011 O	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Advanced Technologies Institute North Charleston, South Carolina	5.660	2.453	Jan 2010	2.607	Mar 2011	0.000		2.607	Continuing	Continuing	Continuing
		Subtotal	5.660	2.453		2.607		0.000		2.607			
<u>Remarks</u>													
			Total Prior Years Cost	FY 2	2010	FY 2 Ba	2011 se	FY 20 OC	011 O	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	5.660	2.453		2.607		0.000		2.607			
<u>Remarks</u>													

Exhibit R-4, RDT&E Schedule Profile: PB 2011 De	xhibit R-4, RDT&E Schedule Profile: PB 2011 Defense Logistics Agency															DATE: February 2010													
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, D 3A 7: Operational Systems Development	efe	nse	e-N	/ide			R. Pi M	<b>-1  </b> 1 E 07 anu	T <b>EN</b> 708 fac	<b>/ N(</b> 011 <i>turir</i>	OM S: ng	EN Indi Teci	<b>CL</b> ustr hnc	<b>ATL</b> rial l	JRE Pre y (I	E par P N	edr 1an	nes: Tec	s h)			PR 3: F Adı	<b>OJ</b> Prov van	EC cur ce	T em d S	ent yst	Re em	eadi Tec	ness Optimization- chnology (PRO-ACT)
			200	00			201	0		:V 2	014	4		:V 2	011	<b>,</b>	F	Vo	012	, [	EV	/ 20	14		F	Vì	01	5	
	1	2	200	Δ	1	2	3	4	г 1	2	3	۱ ۲	г 1	2	3	2 	г 1	2	3	, Δ	гі 1 <sup>-</sup>	2	3	4	г 1	2	3	5 4	
DoD Procurement Tools and technical Support					İ																								
Metal Matrix Composites	-	-	1		-	-	-	-	Ī		Ī	Ī	Ī	Ī	Ī	Ī	Ī		Ī							Ī	Ī		
Rapid Tooling									Ī			Ī	Ī	Ī		Ī			Ī										
Yield Improvement																													
A201 Statistical Properties																													
Rapid Tooling for Short Run Metal Mold Applications																													
High Performance Casting Alloys																													
Self-Propagating High Temp Synthesis (SHS) for Metal Matrix Composite Components																													
Casting Metal Mold Production Improvements																													
Short Run Insert Production and Improved Yield																													
E357 Statistical Properties																													
Optimizing Corrosion Performance on Stainless Steel Castings & Welds																													
Solidification Under pressure and Digital Radiography Standard for Investment Steel Castings																													
Cast Part Performance in the Presence of Discontinuities																													
Casting Standards and Specifications																													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Defense Logistics Agency		DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITYR-1 I0400: Research, Development, Test & Evaluation, Defense-WidePE 0BA 7: Operational Systems DevelopmentManu	<b>TEM NOMENCLATURE</b> 708011S: Industrial Preparedness ufacturing Technology (IP ManTech)	PROJECT 3: Procuren Advanced S	nent Readiness Optimization- System Technology (PRO-ACT)

	F	FY 2009				FY	201	0	I	<b>-</b> Y :	201	1	F	Y 2	201	2	F	Y 2	201	3	F	Y:	201	4	F	Y 2	201	5
	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
Procurement Solutions Network																												
Rapid Prototyping																												

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hibit R-4A, RDT&E Schedule Details: PB 2011 Defense Logistics	s Agency			DATE: Febr	uary 2010		
<b>PROPRIATION/BUDGET ACTIVITY</b> 00: Research, Development, Test & Evaluation, Defense-Wide 7: Operational Systems Development	R-1 ITEM NOMENCI PE 0708011S: Indust Manufacturing Techn	LATURE trial Preparedness ology (IP ManTec	+) PF 3: (h) Ac	ROJECT Procurement Readine Ivanced System Techr	<b>T</b> ement Readiness Optimization- I System Technology (PRO-ACT		
	Schedule Details	5					
	ſ	Sta	art	E	Ind		
Event		Quarter	Year	Quarter	Year		
DoD Procurement Tools and technical Support		1	2009	4	2015		
Metal Matrix Composites		1	2011	4	2015		
Rapid Tooling		1	2011	4	2015		
Yield Improvement	1	2011	4	2015			
A201 Statistical Properties	1	2011	4	2015			
Rapid Tooling for Short Run Metal Mold Applications		1	2009	4	2010		
High Performance Casting Alloys		1	2009	4	2010		
Self-Propagating High Temp Synthesis (SHS) for Metal Matrix C	omposite Components	1	2009	4	2010		
Casting Metal Mold Production Improvements		1	2009	4	2010		
Short Run Insert Production and Improved Yield		1	2009	4	2010		
E357 Statistical Properties		1	2009	4	2010		
Optimizing Corrosion Performance on Stainless Steel Castings &	& Welds	1	2009	4	2015		
Solidification Under pressure and Digital Radiography Standard Castings	for Investment Steel	1	2009	4	2015		
Cast Part Performance in the Presence of Discontinuities		1	2009	4	2015		
Casting Standards and Specifications		1	2009	4	2015		
Procurement Solutions Network		1	2009	4	2015		
Rapid Prototyping		1	2011	4	2015		

Exhibit R-2A, RDT&E Project Just	xhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics Agency         DATE: February 2010														
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	<b>ITY</b> & Evaluation ment	n, Defense-V	Vide	<b>R-1 ITEM N</b> PE 070801 <i>Manufactur</i>	IOMENCLA 1S: Industria ing Technolo	<b>FURE</b> I Preparedno ogy (IP Man1	PROJECT 4: Procuren Forging Adv FAST)	- ment Readiness Optimization- dvanced System Technology (PRO-							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	4 FY 2015 Cost To To te Estimate Complete Co						
4: Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)	1.182	1.145	1.230	0.000	1.230	1.252	1.268	1.290	1.313	Continuing	Continuing				
Quantity of RDT&E Articles															

#### A. Mission Description and Budget Item Justification

Weapon system spare parts which use forgings are responsible for a disproportionate share of DLA backorders. Forged parts are ~3% of National Stock Numbers (NSNs) but ~6% of unfilled orders. This program develops methods and technology to improve the supply of forged parts. This program takes a holistic view of the problem and attacks root causes inside DLA, at DLA's engineering support activity partners in the Services, and at DLA forging suppliers. The program has three thrusts: Business Enterprise Integration to improve supply support approaches; FORGE-IT to develop and improve technical problems; and R&D which develops new technology for forging suppliers, including new methods for making forge dies (typically the longest lead time item) and for simulation of metal flow inside the forge die (to eliminate trial and error development of the die).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Procurement Readiness Optimization-Forging Advanced System Technology Accomplishments/Plans	1.182	1.145	1.230	0.000	1.230
FY 2009 Accomplishments: There are 60,000 tools in the National Forging Tooling Database Completed lean manufacturing demonstration projects at one small forge. Developed plan for dynamic partnering (sourcing tool) for forgings; lean six sigma process improvements at forges; develop multi-material, multi-method evaluation tool.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistic	s Agency			DATE: Febr	uary 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedne Manufacturing Technology (IP ManTe	ess ech)	PROJECT 4: Procurer Forging Ad FAST)	<b>T</b> ement Readiness Optimization- dvanced System Technology (PRO-				
B. Accomplishments/Planned Program (\$ in Millions)			-					
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
<ul> <li>FY 2010 Plans: Investigation, development, and deployment of new and innovative to address forging design and acquisition for weapon systems. Proj system performance prediction, new forging materials, and rapid to and models for Multi-Material, Multi-Method Evaluations; develop a effective model; demonstrate the model; and transition the model.</li> <li>FY 2011 Base Plans: Develop and deploy a web based tool that links forging customers t process improvements at forges; develop multi-material, multi-meth forging supply chains to improve forging design and acquisition pro toughness of "the Atlas of Metal Products" in old and new weapon s</li> </ul>	tools, technologies and techniques jects include forming simulation; oling. Investigate best practices n affordable, easy-to-use, and to forging suppliers; lean six sigma nod evaluation tool. Address vexing cesses. Exploit the strength and systems.							
Accomplis	hments/Planned Programs Subtotals	1.182	1.145	1.230	0.000	1.230		
<ul> <li><u>C. Other Program Funding Summary (\$ in Millions)</u> N/A</li> <li><u>D. Acquisition Strategy</u> A Broad Agency Announcement (BAA) evaluations complete.</li> <li><u>E. Performance Metrics</u> This program has a business case which justifies the investment in terr</li> </ul>	ms of economic and readiness benefit	S.						

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB	3 2011 Defer	nse Logisti	cs Agency						DAT	<b>E:</b> Februa	ary 2010	
APPROPRIATION/BUDGET ACTIVITYR-1 ITEM0400: Research, Development, Test & Evaluation, Defense-WidePE 07080BA 7: Operational Systems DevelopmentManufact						<b>1 NOMENC</b> 011S: Indu turing Tech	CLATURE strial Prepa nology (IP	aredness ManTech)		<b>PROJECT</b> 4: Procuren Forging Adv FAST)	nent i vance	Readiness ed System	s Optimizat 1 Technolog	ion- ıy (PRO-
Support (\$ in Millio	ns)		ſ			FY	2011	FY 20	011	FY 201	1			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2 Cost	010 Award Date	Ba Cost	Award Date	Cost	O Awar Date	d d Cost		Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Advanced Technologies Institute North Charleston, South Carolina	3.354	1.145	Jan 2010	1.230	Jan 2011	0.000		1.2	230	Continuing	Continuing	Continuing
	_1	Subtotal	3.354	1.145		1.230		0.000		1.2	230			
<u>Remarks</u>														
			Total Prior Years Cost	FY 2	010	FY 2 Ba	2011 ISE	FY 20 OC	011 O	FY 201 Total	11	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	3.354	1.145		1.230		0.000		1.2	230			
<u>Remarks</u>														

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Exh	ibit R-4, RDT&E Schedule Profile: PB 2011 Defense Logistics Agency														DATE: February 2010															
<b>API</b> 040 BA	<b>PPROPRIATION/BUDGET ACTIVITY</b> 400: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development							R P M	- <b>1 Ι</b> Ε 0 Ιαηι	TEI 708 Jfac	<b>M N</b> 3011 cturi	<b>ON</b> 1S: ing	Ina Tec	ICL lust :hn	<b>_AT</b> trial olog	URI Pre gy (l	E par ΡΛ	redr ⁄Ian	ness Tec	s h)			PR 4: I Foi FA	<b>OJ</b> Proo rgin ST)	E <b>C</b> curi g A	T em \dv	ent anc	Re ed	adi Sy:	ness Optimization- stem Technology (PRO-
		FY 2009         FY           1         2         3         4         1         2						201	0		FY 2	201	1		FY	2012	2	F	Y 2	013		F	Y 20	014		F	Y 2	015	5	
		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	
	DoD Procurement Tools and Technical Support																													
	Simulation of Heat Treat Distortion																													
	Simulation and Workforce Development																													
	Rapid Low Cost Data Generation for Simulation																													
	Next Generation Low Cost Aluminum Alloys																													
	National Forging Tooling Database (NFTD)																													
	Metal and Process Optimization (MPO)																													
	Laser Deposition of Tooling																													
	Dynamic Partnering (DP)																													
	SmartChart™ Intelligent Process Tools for Forges																													

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Defense Logistics	DATE: Febru	uary 2010						
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCL</b> PE 0708011S: Indust Manufacturing Techno	ATURE rial Preparedness ology (IP ManTecl	h) FAST)	CT urement Readiness Optimization- Advanced System Technology (PR				
	Schedule Details	;						
	Γ	Sta	ırt	E	nd			
Event		Quarter	Year	Quarter	Year			
DoD Procurement Tools and Technical Support		1	2009	4	2015			
Simulation of Heat Treat Distortion		1	2013	4	2015			
Simulation and Workforce Development		1	2009	4	2012			
Rapid Low Cost Data Generation for Simulation		1	2013	4	2015			
Next Generation Low Cost Aluminum Alloys		1	2013	4	2015			
National Forging Tooling Database (NFTD)		1	2009	4	2015			
Metal and Process Optimization (MPO)		1	2009	4	2012			
Laser Deposition of Tooling		1	2009	4	2012			
Dynamic Partnering (DP)		1	2009	4	2012			
SmartChart™ Intelligent Process Tools for Forges		1	2009	4	2015			

Exhibit R-2A, RDT&E Project Just		DATE: February 2010												
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	<b>/ITY</b> t & Evaluatio oment	n, Defense-V	Vide	R-1 ITEM N PE 070801 <i>Manufactur</i>	IOMENCLA 1S: Industria ing Technolo	TURE Il Preparedn ogy (IP Man T	<b>PROJECT</b> 5: <i>Material</i>	JECT aterial Acquisition Electronics (MAE)						
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost			
5: Material Acquisition Electronics (MAE)	10.372	10.065	10.839	0.000	10.839	11.030	11.172	11.364	11.560	Continuing	Continuing			
Quantity of RDT&E Articles														

#### A. Mission Description and Budget Item Justification

Develop a capability to emulate most obsolete digital integrated circuits (ICs) in the Federal catalog using a single, flexible manufacturing line. DoD has estimated \$2.9 billion is spent every five years redesigning circuit card assemblies. Many of these circuit card redesigns are performed to mitigate IC obsolescence. Commercial ICs have short Product Life Cycles (often only 18 months). IC Manufacturers subsequently move on to later generations of ICs, leaving little to no sources for their previous IC products. DoD maintains weapons systems much longer than IC lifecycles, resulting in an obsolescence problem. In order to avoid costs and potential readiness issues associated with buying/carrying excess inventories acquired before commercial availability ceases, or redesigning the next higher assembly to mitigate the obsolete IC, DLA (as the manager of 88% of the IC Federal Stock Class) must have the capability to manufacture needed IC devices.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Material Acquisition Electronics Accomplishments/Plans	10.372	10.065	10.839	0.000	10.839
<ul> <li>FY 2009 Accomplishments: MAE has produced new IC types including: Modular Pack Mine System, F/A-18, Milstar, AV-8B, F-15, and B-1. MAE has extended its capability to produce high operational speed, more complex function ICs, while simultaneously increasing yield.</li> <li>FY 2010 Plans: MAE will continue to advance our 0.5 micron design, test, and fabrication technologies, expanding our capabilities for high circuit density and radiation hardened ICs. The IC characterization tool will</li> </ul>					
continue development to accommodate more complex DoD IC requirements, providing critical missing design specifications. MAE will continue an IC requirements assessment and evaluate the feasibility					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense L	ogistics Agency			DATE: Febr	uary 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedne Manufacturing Technology (IP ManTechnology)	ess Tech)	<b>PROJECT</b> 5: <i>Material A</i>	T al Acquisition Electronics (MAE)			
B. Accomplishments/Planned Program (\$ in Millions)							
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
of an analog Emulation capability. These efforts will include Specific Integrated Circuits (ASICs). <i>FY 2011 Base Plans:</i> MAE will continue to develop additional capability and expan obsolete ICs through successive technology nodes. These t performance based specification and Weapons System IC in increased DoD concern over trusted sourcing issues, as most to overseas suppliers.	progressively more complex Application ad it to succeeding generations of technologies will be demonstrated through tertions. In addition, there has been st IC design and production has migrated						
Acc	complishments/Planned Programs Subtotals	10.372	10.065	10.839	0.000	10.839	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A							
D. Acquisition Strategy N/A							
<b><u>E. Performance Metrics</u></b> Transition of one technology implementation (base array) to low	-rate initial production or full-scale productior	ו.					

Exhibit R-3, RDT&E	Project C	ost Analysis: PE	2011 Defer	nse Logisti	cs Agency					DA	ATE: Febru	ary 2010	
APPROPRIATION/B 0400: Research, Dev BA 7: Operational Sy	<b>UDGET A</b> velopment, vstems Dev	<b>CTIVITY</b> Test & Evaluatior velopment	n, Defense-V	Vide	R-1 ITEN PE 0708 <i>Manufac</i> i	<b>1 NOMENC</b> 011S: Indus turing Techi	<b>LATURE</b> strial Prepa nology (IP )	redness ManTech)		PROJECT 5: Material Acc	quisition Ele	ectronics (M	AE)
Support (\$ in Millior	ıs)												
				FY 2	010	FY 2 Bas	011 se	FY 2 OC	011 :O	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Awa Dat	rd e Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Sarnoff Corporation Princeton, New Jersey	29.462	10.065	Oct 2009	10.839	Oct 2011	0.000		10.839	Continuing	Continuing	Continuing
		Subtotal	29.462	10.065		10.839		0.000		10.839			
<u>Remarks</u>													
			Total Prior Years Cost	FY 2	010	FY 2 Bas	011 se	FY 2 OC	011 :O	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	29.462	10.065		10.839		0.000		10.839			
<u>Remarks</u>													

xhibit R-4, RDT&E Schedule Profile: PB 2011 D	efen	se	Logi	stic	s Ag	gen	су																DA	TE:	Fe	bruary 2010
<b>PPROPRIATION/BUDGET ACTIVITY</b> 400: Research, Development, Test & Evaluation, L A 7: Operational Systems Development	Defe	nse	-Wic	le			<b>R-1</b> PE ( <i>Man</i>	ITE 0708 nufac	<b>M N</b> 3011 cturi	<b>0N</b> 1S: ing	IEN Indi Tec	<b>CL/</b> ustri hno	<b>ATU</b> ial F logy	RE Prepa / (IP	areo Ma	dnes nTe	ss ch)			<b>PR(</b> 5: <i>N</i>	DJE late	CT rial J	Acq	uisit	tion	Electronics (MAE)
	F	=Y 2	2009	)	FY	<b>′</b> 20	010		FY 2	201	1	F	Y 2(	012		FY	201	3	F	Y 20	14	F	FY 2	2015	5	
	1	2	3	4	1 2	2 3	3 4	1	2	3	4	1	2	3 4	l 1	2	3	4	1	2 3	6 4	1	2	3	4	
Perform Gap Analysis (GA)																										
Implement Process Improvements																										
Plan required Process Improvements																										
Perform Process Review																										
Transition New Microcircuit Designs to LRIP																										
Develop Low Rate Initial Production (LRIP) Capability																										
Develop Prototypes for Test and Insertion																										
Update Design Library																										
Perform Base Array Designs Required to Fill GA																										
Monitor and Adjust Process Improvements																										

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khibit R-4A, RDT&E Schedule Details: PB 2011 Defense Logistics	s Agency				DATE: Februa	ary 2010
PPROPRIATION/BUDGET ACTIVITY 000: Research, Development, Test & Evaluation, Defense-Wide A 7: Operational Systems Development	<b>R-1 ITEM NOMENCL</b> PE 0708011S: Indust Manufacturing Techn	ATURE trial Preparedness ology (IP ManTec	s h)	PROJEC 5: Materi	CT ial Acquisition Ele	ctronics (MAE)
	Schedule Details	3				
	ſ	Sta	art		En	d
Event		Quarter	Yea	ar	Quarter	Year
Perform Gap Analysis (GA)		1	200	)9	4	2015
Implement Process Improvements		1	200	)9	4	2015
Plan required Process Improvements		1	200	)9	4	2015
Perform Process Review		1	200	)9	4	2015
Transition New Microcircuit Designs to LRIP		1	200	)9	4	2015
Develop Low Rate Initial Production (LRIP) Capability		1	200	)9	4	2015
Develop Prototypes for Test and Insertion		1	200	)9	4	2015
Update Design Library		1	200	)9	4	2015
Perform Base Array Designs Required to Fill GA		1	200	)9	4	2015
Monitor and Adjust Process Improvements		1	200	)9	4	2015

Exhibit R-2A, RDT&E Project Just	ification: PE	3 2011 Defei	nse Logistics	s Agency					DATE: Feb	ruary 2010			
APPROPRIATION/BUDGET ACTIV 0400: Research, Development, Test BA 7: Operational Systems Develop	PROPRIATION/BUDGET ACTIVITY       R-1 ITEM NOMENCLATURE         00: Research, Development, Test & Evaluation, Defense-Wide       PE 0708011S: Industrial Preparedness         7: Operational Systems Development       Manufacturing Technology (IP ManTech)							PROJECT 6: Battery N	JECT attery Network (BATTNET)				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost		
6: Battery Network (BATTNET)	0.000	0.981	0.978	0.000	0.978	0.976	0.973	0.970	0.967	Continuing	Continuing		
Quantity of RDT&E Articles													

#### A. Mission Description and Budget Item Justification

Mission Description and Budget Item Justification BATTNET is focused on improving the supply and reducing the cost of batteries used in fielded weapon systems, such as communication radios and armored vehicles. BATTNET is a community of practice of battery supply chain members, including materials and components suppliers, assemblers, engineering support activities, battery maintenance activities, researchers, and users.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
BATTNET Accomplishments/Plans	0.000	0.981	0.978	0.000	0.978
<ul> <li>FY 2009 Accomplishments:</li> <li>DLA awarded nine industry contracts as a result of a BAA developed with the Military Services. DLA formally established Program Management and continued collaborative process with the Joint Defense Manufacturing Technology Panel (JDMTP) Power Sources Committee and National Defence Industrial Association (NDIA) Power Forum.</li> <li>FY 2010 Plans:</li> <li>DLA conducted an initial BATTNET meeting in October 2009 to review and assess the project proposals originally submitted in the BAA. DLA plans on conducting a study of its battery supply chain and work with the BATTNET on new project proposals. BATTNET R&amp;D will be done through awards of Short Term Projects (STP) implemented within the DLA battery supply chain to assure the prompt and sustained availability, quality, and affordability of batteries. STPs have an expected duration of 18-24 months and an average funding of \$100K-\$500K per year. STP proposals are required to include a business case with specific metrics for success and a predicted return on investment (ROI).</li> </ul>					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics	s Agency			DATE: Febr	uary 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedne Manufacturing Technology (IP ManTe	ess ech)	PROJECT 6: Battery N	letwork (BAT	TNET)	
B. Accomplishments/Planned Program (\$ in Millions)	-					
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Initial focus will be on processes used to qualify new producers, so more easily met.	that surge requirements can be					
Accomplis	hments/Planned Programs Subtotals	0.000	0.981	0.978	0.000	0.978
	· · · · · · · · · · · · · · · · · · ·					

#### C. Other Program Funding Summary (\$ in Millions)

N/A

#### D. Acquisition Strategy

A competitive Broad Area Announcement (BAA) will allow for maximum competition. To continue the competition throughout the life of the program, up to 10 contracts will be awarded to research partners. These research partners will continue to compete among themselves for particular research tasks. Additional partners will be sought as the need arises.

#### **E. Performance Metrics**

Each Short Term Project (STP) will have performance metrics appropriate to its scope. Also all STPs will include a business case to demonstrate return on investment, or a readiness case to calculate warfighter impact versus costs.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 De	ense Logistics	Age	ency									DATE: February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, De BA 7: Operational Systems Development	fense-Wide		<b>R-1</b>   PE 0 <i>Man</i>	ITEN )708( ufact	<b>I NOM</b> 011S: <i>turing</i>	IENCI Indus Techn	<b>ATURE</b> trial Pre <sub>l</sub> ology (I	E parec P Ma	dness nTech)		PROJE 6: Batte	CT ery Network (BATTNET)
	EV 2000		2040		X 204	4	-> 2041		EV 204	<u>а Г</u>	X 204 4	EV 2045
	1 2 3 4 1	2	3 4	1	2 3	4 1	2 3	4 1	2 3	3 F 4 1	2 3 4	
Battery Network Program												

APPROPRIATION/BUDGI 0400: Research, Developn BA 7: Operational Systems	ET ACTIVITY nent, Test & Evaluation, Defense-Wide S Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Prepared Manufacturing Technology (IP Ma	Iness 6: L nTech)	OJECT 3attery Network (BATTI	NET)
		Schedule Details			
			Start	En	nd
	Event	Quarter	Year	Quarter	Year
Battery Network Prog	ram	1	2010	4	2015

Exhibit R-2A, RDT&E Project Ju	stification: Pl	3 2011 Defe	nse Logistic	s Agency					DATE: Feb	ruary 2010		
<b>APPROPRIATION/BUDGET ACT</b> 0400: Research, Development, Te BA 7: Operational Systems Develo	<b>IVITY</b> est & Evaluatio opment	n, Defense-V	Nide	R-1 ITEM N PE 070801 Manufactur	IOMENCLA 1S: Industria ing Technolo	<b>TURE</b> al Preparedno ogy (IP Man T	ess Tech)	<b>PROJECT</b> 7: Other Co	congressional Adds (OCAs)			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
7: Other Congressional Adds (OCAs)	33.358	25.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Quantity of RDT&E Articles												
B. Accomplishments/Planned P	rogram (\$ in I	<u>Millions)</u>					FY 2009	FY 2010	]			
							3.988	0.000				
Congressional Add: Cellulosic De	rived Biofuels	Research Pi	roject				0.000	0.000				
FY 2009 Accomplishments: The objective of this program for large scale production in a research approach includes t croplands in Kentucky to ens biofuel facility. Then, an opti biodiesel and (ultimately) bio	n is to demonst a process that first conducting ure there is en mal 'recipe' of jet fuel using r	rate that cell utilizes algae biomass su ough biomas cellulosic ma non-food cell	lulosic-derive e to convert irveys to ide ss feedstock aterial will be lulosic mater	ed biodiesel biomass into ntify suitable available fo e determined rials.	and JP-8 are bio-oils. Th crops and a r a commerc for the prod	e viable ne available cial scale luction of						
							2.792	1.592	-			

Congressional Add: Cooper Based Casting Technology Applications (CBCT) *FY 2009 Accomplishments:* The objectives of this program are to leverage the successes of the DLA-led CBCT program into deployable applications and to develop lighter/smaller pump/motor applications that are more efficient, run cooler, & last longer.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logis	stics Agency			DATE: February 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedne Manufacturing Technology (IP ManT	ess Tech)	<b>PROJECT</b> 7: Other Co	ongressional Adds (OCAs)	
B. Accomplishments/Planned Program (\$ in Millions)	·				
		FY 2009	FY 2010	]	
<i>FY 2010 Plans:</i> To be determined.					
Congressional Add: Improved Collapsible Urethane Fuel Storage (IC	U-FST)	1.596	0.000		
<ul> <li>FY 2009 Accomplishments:</li> <li>Collapsible Fuel Storage Tanks have provided tactical bulk petrod decades. Initially developed to supplement bolted steel tanks, b method used by the Department of Defense (DoD) for storing tag bladders being used have been unreliable, inefficient and unsafe caused the end users to lose faith in this equipment. As there are in Contingent United States (CONUS), this effort will focus exclut to date include: High Temperature Dead Load in Fuel Apparatus completed and finalized DOE (design of experiment) with ILC Deprocess control experiment including equipment that will be used</li> <li>Improve tank fabrication techniques and quality control procedure tank seams. Incorporate fabrication and quality control improven Specification. Share findings with Government and industry.</li> </ul>	leum storage to the U.S. Military for ladders have now become the primary ctical fuel on the battlefield. Current with a history of failures that have re no commercial applications for bags sively on DoD use. Accomplishments s prototype cylinder design work over on design of manufacturing and d. es in design and manufacture of nents into Joint Military Performance				
Congressional Add: Industrial Base Innovation Fund		19.148	19.895		
FY 2009 Accomplishments: The Defense Logistics Agency (DLA) received the tasking in Jar on behalf of the Department of Defense. DLA has been instruct with the Joint Defense Manufacturing Technology Panel (JDMTF Under Secretary of Defense for Industrial Policy (ODUSD(IP)).	uary 2008 to execute the program ed to execute the fund in coordination P) and with the Office of the Deputy The objective of the program is to				

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logi	istics Agency		DATE: February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)	PROJECT 7: Other Co	ongressional Adds (OCAs)
B. Accomplishments/Planned Program (\$ in Millions)			
	FY 2009	FY 2010	]
ensure that investments are made to address shortfalls in manu in support of the Department's long-term and short-term needs.	facturing processes and technologies		
FY 2010 Plans:			
To be determined.			
	1 596	1 989	-
Congressional Add: Northwest Defense Manufacturing Initiative			
FY 2009 Accomplishments: Northwest Manufacturing Initiative has several thrusts. Half the for subject matter experts (SMEs) that include lean, outreach, w mapping. The other half of the funding goes to Portland State U technology transfer in advanced welding technologies.	funding goes toward training activities orkforce development and capability niversity to develop and complete		
FY 2010 Plans:			
To be determined.			
Congressional Add: Ultra-high Strength Steele for Landing Geer	1.995	1.592	
The objective of this program is to develop and deploy a corrosi equal to or better than 300M and 4340 for the Department of De that will reduce development time and weapon system life-cycle	on resistant ultrahigh strength steel efense weapon system components e maintenance costs.		
FY 2009 Accomplishments: AMS 5922 (Aerospace Material Sp Steel Bars) and MMPDS-05 (Metallic Materials Properties Deve standards approval, completion of full scale 3-axis fatigue testin piston, and completion of pressure testing on A-10 strut brace.	ecification for Corrosion-Resistant lopment and Standardization) g on A-10 main landing gear (MLG)		

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistic	cs Agency			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708011S: Industrial Preparednes Manufacturing Technology (IP ManTe	ss ech)	<b>PROJECT</b> 7: Other Co	ongressional Adds (OCAs)
B. Accomplishments/Planned Program (\$ in Millions)			1	
		FY 2009	FY 2010	]
FY 2009 Plan: Complete full rig 3-axis testing on T38 piston, produce F-16 lightweight nose landing gear (NLG) axel component	uce C-5 roll pin forgings, and ts.			
<i>FY 2010 Plans:</i> To be determined.				
Congressional Add: Vet-Biz Initiative for National Sustainment (VINS)		1.995	0.796	-
<i>FY 2009 Accomplishments:</i> The objective of this program it to provide strategic consulting and Disabled Veteran Owned Business (SDVOSB).	hands on training to help Service			
<i>FY 2010 Plans:</i> To be determined.				
		0.248	0.000	-
Congressional Add: Wiring Integrity Technology				
FY 2009 Accomplishments: The objective of this project was to improve the inspection capabili communication wires.	ty of multi-strand aviation power and			
	Congressional Adds Subtotals	33.358	25.864	-
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>D. Acquisition Strategy</u>				-

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2011 Defense Logistics Agency		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 0708011S: Industrial Preparedness Manufacturing Technology (IP ManTech)	<b>PROJECT</b> 7: Other Congressional Adds (OCAs)
E. Performance Metrics		
N/A		