Department of Defense
Fiscal Year (FY) 2012 Budget Estimates

February 2011

Defense Logistics Agency

Justification Book Volume 5

Research, Development, Test & Evaluation, Defense-Wide

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Volume 5 Table of Contents

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Defense-Wide
FY 2012 President's Budget
Exhibit R-1 FY 2012 President's Budget
Total Obligational Authority
(Dollars in Thousands)

02 Feb 2011

Summary Recap of Budget Activities	FY 2010 (Base & OCO)	FY 2011 Base Request with CR Adj*	FY 2011 OCO Request with CR Adj*	FY 2011 Total Request with CR Adj*	FY 2011 Annualized CR Base**	FY 2011 Annualized CR OCO**	FY 2011 Annualized CR Total**
Advanced Technology Development (ATD)	150,193	77,279		77,279	77,144		77,144
System Development and Demonstration (SDD)							
RDT&E Management Support	2,356						
Operational Systems Development	48,261	24,611		24,611	24,567		24,567
Total Research, Development, Test & Evaluation	200,810	101,890		101,890	101,711		101,711
Summary Recap of FYDP Programs							
Research and Development	152,549	77,279		77,279	77,144		77,144
Central Supply and Maintenance	48,261	24,611		24,611	24,567		24,567
Total Research, Development, Test & Evaluation	200,810	101,890		101,890	101,711		101,711

R-1P: FY 2012 President's Budget (Published Official Position With FY 2011 CR Adjustments), as of February 2, 2011 at 14:53:18
* Reflects the FY 2011 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
** Adjusts each budget line included in the FY 2011 President's Budget request proportionally to match the Annualized Continuing Resolution funding level for each appropriation.

Defense-Wide
FY 2012 President's Budget
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02 Feb 2011

Summary Recap of Budget Activities	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Advanced Technology Development (ATD)	157,993		157,993
System Development and Demonstration (SDD)	134,285		134,285
RDT&E Management Support			
Operational Systems Development	25,569		25,569
Total Research, Development, Test & Evaluation	317,847		317,847
Summary Recap of FYDP Programs			
Research and Development	292,278		292,278
Central Supply and Maintenance	25,569		25,569
Total Research, Development, Test & Evaluation	317,847		317,847

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Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2010 (Base & OCO)	FY 2011 Base Request with CR Adj*	FY 2011 OCO Request with CR Adj*	FY 2011 Total Request with CR Adj*	FY 2011 Annualized CR Base**	FY 2011 Annualized CR OCO**	FY 2011 Annualized CR Total**	Sec
35	0603264S	Agile Transportation for the 21st Century (AT21) - Theater Capability	03		750		750	749		749	U
50	0603712S	Generic Logistics R&D Technology Demonstrations	03	50,559	20,542		20,542	20,506		20,506	U
51	0603713S	Deployment and Distribution Enterprise Technology	03	29,076	29,109		29,109	29,058		29,058	U
53	0603720S	Microelectronics Technology Development and Support	03	70,558	26,878		26,878	26,831		26,831	U
		Advanced Technology Development (ATD)		150,193	77,279		77,279	77,144		77,144	
130	0605070S	DOD Enterprise Systems Development and Demonstration	05								U
		System Development and Demonstration (SDD)									
159	0605502S	Small Business Innovative Research	06	2,356							U
		RDT&E Management Support		2,356							
248	0708011S	Industrial Preparedness	07	45,482	21,798		21,798	21,759		21,759	U
249	0708012S	Logistics Support Activities	07	2,779	2,813		2,813	2,808		2,808	U
		Operational Systems Development		48,261	24,611		24,611	24,567		24,567	
Total Research, Development, Test & Eval, DW				200,810	101,890		101,890	101,711		101,711	

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50	0603712S	Generic Logistics R&D Technology Demonstrations	03	23,887		23,887	U
51	0603713S	Deployment and Distribution Enterprise Technology	03	41,976		41,976	U
53	0603720S	Microelectronics Technology Development and Support	03	91,132		91,132	U
		Advanced Technology Development (ATD)		157,993		157,993	
130	0605070S	DOD Enterprise Systems Development and Demonstration	05	134,285		134,285	U
		System Development and Demonstration (SDD)		134,285		134,285	
159	0605502S	Small Business Innovative Research	06				U
		RDT&E Management Support					
248	0708011S	Industrial Preparedness	07	23,103		23,103	U
249	0708012S	Logistics Support Activities	07	2,466		2,466	U
		Operational Systems Development		25,569		25,569	
		Total Research, Development, Test & Eval, DW		317,847		317,847	

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Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Activity 03: Advanced Technology Development (ATD)
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Budget Activity 05: Development & Demonstration (SDD)
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Budget Activity 06: RDT&E Management Support
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Budget Activity 07: Operational Systems Development
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Program Element Table of Contents (Alphabetically by Program Element Title)

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ACRONYM LISTING

USMIRS- USMEPCOM INTEGARTED RESORCE MANAGEMENT SYSTEM
2D - TWO DIMENSIONAL
3D - THREE DIMENSIONAL
AC - ADVANCED CONCEPT
ACAT- ACQUISITION CATEGORY
ACOI- ACCESSIONS COMMUNITY OF INTEREST
ACOS- AUTONOM OUS TECHNOLOGIES FOR UNMANNED AIR SYSTEMS
ACTD - ADVANCED CONCEPT TECHNOLOGY DEMONSTRATION
ADMITT - ADVANCED DOMESTIC MASK INSPECTION TOOLS AND TECHNOLOGY
ADS - ATLANTIC DIVING SUPPLY
AED - ALTERNATE ENERGY DEVELOPMENT
AESA- ACTIVE ELECTRONIC SCANNED ARRAY
AFE - ALTERNATIVE FUEL ENGINE
AFIT - AIR FORCE INSTITUTE OF TECHNOLOGY
AFRL - AIR FORCE RESEARCH LAB
AIDC - AUTOMATED INFORMATION AND DATA COLLECTION
AIN - ALUMINUM NITRADE
AIT- AUTOMATED IDENTIFICATION TECHNOLOGY
ALD - ATOMIC LAYER DEPOSITION
AMCOM - ARMY MATERIAL COMMAND
AMRAMM- ADVANCED MEDIUM RANGE AIR TO AIR MISSLE
AMS - AEROSPACE MATERIAL SPECIFICATION
ARC-AUTOMATED RECORDS CHECK
ARMS - ADVANCED RECONFIGURABLE MANUFACTURING OF SEMICONDUCTORS
AS- ACQUISITION STRATEGY
ASIC - APPLICATION SPECIFIC INTEGRATED CIRCUIT
AT21 - AGILE TRANSPORTATION FOR THE 21ST CENTURY
ATSP3 - ADVANCED TECHNOLOGY SUPPORT PROGRAM III
AV - ASSET VISIBILITY
AWACS - AIRBORNE WARNING AND CONTROL STATION
BAA - BROAD AGENCY ANNOUNCEMENT
BATTNET - BATTERY NETWORK
BEA- BUSINESS ENTERPRISE ARCHITECTURE
BEIS- BUSINESS ENTERPRISE INFORMATION SYSTEM
BLT- BOND LINE THICKNESS
BSCM - BEAM STEERING CONTROL MODULE
BST - BARIUM STRONTIUM TITANATE
BTA – BUSINESS TRANSFORMATION AGENCY
C - CENTIGRADE
C&T - CLOTHING AND TEXTILES
C2 - COMMAND AND CONTROL
CAD- COMPUTER AIDED DESIGN
CAF- CENTRAL ADJUDICATION FACILITY
CAGE - COMMERCIAL AND GOVERNMENT ENTITY CODE
CANDID- COMPUTER ADAPTIVE NETWORK DEFENSE IN DEPTH
CBCT - COOPER BASED CASTING TECHNOLOGY APPLICATIONS
CCS - CARBON CAPTURE AND SEQUESTRATION
CDCIE - CROSS DOMAIN COLLABORATIVE INFO ENVIRONMENT
CDUM - CUSTOMER DRIVEN UNIFORM MANUFACTURING
CG(X) - NEXT GENERATION CRUISER
CIE - CLOTHING AND INDIVIDUAL EQUIPMENT
CIF - CENTRAL ISSUE FACILITY
CIW - COLABORATIVE INFO WORKSPACE
CMOS - COMPLEMENTARY METAL OXIDE SEMICONDUCTORS
CMS - COALITION MOBLITY SYSTEM
CMS - CONGRESSIONALLY MANDATED STUDY
COCOM- COMBATANT COMMAND
COEX - COMMUNITY OF EXCHANGE
CONOPS - CONCEPT OF OPERATIONS
CONUS - CONTINENTAL UNITED STATES
COP - COMMON OPERATIONAL PICTURE
CORANET - COMBAT RATIONS NETWORK FOR TECHNOLOGY IMPLEMENTATION
COS - COMMERCIAL OFF THE SHELF

COTS- COMMERCIAL OFF THE SHELF
CPFF - COST PLUS FIXED-FREE
CPOF - COMMAND POST OF THE FUTURE
CRADA - COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT
CSL - CATALST SUPPORT LAYER
CWB - COLD WEATHER BIODIESEL
D2 - DEPLOYMENT AND DISTRIBUTION
DBASE- DEFENSE BUSINESS SYSTEMS ACQUISITION STAFF
DC - DIRECT CURRENT
DCAS – DEFENSE CASH ACCOUNTABILITY
DCD/DCW- DFAS CORPORATE DATABASE/DFAS CORPORATE WAREHOUSE
DCSC - DEFENSE SUPPLY CENTER COLUMBUS
DCSP - DEFENSE SUPPLY CENTER PHILADELPHIA
DCSR - DEFENSE SUPPLY CENTER RICHMOND
DDOC - DEPLOYMENT DISTRIBUTION OPERATIONS CENTER
DDR&E - DIRECTOR, DEFENSE RESEARCH & ENGINEERING
DDXX - DEPLOYABLE DISTRIBUTION CENTER
DESC - DEFENSE ENERGY SUPPORT CENTER
DFAR- DEFENSE FINANCIAL MANAGEMENT REGULATION
DFAS- DEFENSE FINANCE AND ACCOUNTING SERVICES
DHS - DEPARTMENT OF HOMELAND SECURITY
DIA- DEFENSE AGENCIES INITIATIVE
DISA- DEFENSE INFORMATION SYSTEMS AGENCY
DISS- DEFENSE INFORMATION SYSTEM FOR SECURITY
DLA - DEFENSE LOGISTICS AGENCY
DLIR - DEFENSE LOGISTICS INFORMATION RESEARCH
DLIS - DEFENSE LOGISTICS INFORMATION SERVICE
DMDC- DEFENSE MANPOWER DATA CENTER
DMEA - DEFENSE MICROELECTRONICS ACTIVITY
DMFC - DIRECT METHANOL FUEL CELL
DMLSS-W - DEFENSE MEDICAL LOGISTICS STANDARD SUPPORT BLANKET PURCHASE AGREEMENT
DMLT - DEFENSE MEDICAL LOGISTICS TRANSFORMATION
DMSMS - DIMINISHING MANUFACTURING SOURCE AND MATERIAL SHORTAGE
DoD - DEPARTMENT OF DEFENSE
DOD EMALL- DEPARTMENT OF DEFENSE ELECTRONIC MALL
DOE - DESIGN OF EXPERIMENT
DOORA- DLA OFFICE OF OPERATIONS RESEARCH AND RESOURCE ANALYSIS
DOP - DISTRIBUTION PROCESS OWNER
DORRA - DEFENSE LOGISTICS AGENCY OFFICE OF OPERATIONS RESEARCH AND RESOURCE ANALYSIS
DOTLMS PF- DOCTRICE ORGANIZATION TRAINING LEADERSHIP AND EDUCATION
DP - DYNAMIC PARTNERING
DPNM - DISTRIBUTION PROCESS NODAL MODEL
DPO- DISTRIBUTION PROCESS OWNER
DR - DISASTER RELIEF
DRAS- DEFENSE RETIRED AND ANNUITANT PAY SYSTEM
DRMS - DEFENSE REUTILIZATION AND MARKETING SERVICE
DTMO- DEFENSE TRAVEL MANAGEMENT OFFICE
DTS- DEFENSE TRAVEL SYSTEM
DUSD - DEPUTY UNDER SECRETARY OF DEFENSE
DVD- DIRECT VENDOR DELIVERY
EA- ECONOMIC ASSUMPTIONS
EA - EXECUTIVE AGENT
EBS- ENTERPRISE BUSINESS SOLUTIONN
EDA- ELECTRONIC DOCUMENT ACCESS
EDW- ENTERPRISE DATA WAREHOUSE
EFT- ELECTRONIC FUNDS TRANSFER
EMALL - ELECTRONIC MALL
EMFST- ELECTRONICS AND MATERIALS FOR FLEXIBLE SENSORS AND TRANSPORTATION
EML - EXPEDITIONARY MEDICAL LOGISTICS
EO - ELECTRO-OPTIC
EPA - ENERGY POLICY ACT
ERP - ENERGY READINESS PROGRAM
ESA - ENGINEERING SUPPORT ACTIVITES
EUVL - EXTREME ULTRAVIOLET LITHOGRAPHY

FAME - FATTY ACID METHYL ESTER
FBAR - FILM BULK ACOUSTIC RESONATOR
FC - FUEL CELL
FCC - FAME CROSS CONTAMINATION
FDA - FOOD AND DRUG ADMINISTRATION
FDTPI- FIRST DESTINATION TRANSPORTATION 7 PACKAGING INITIATIVE
FEFMIA- FEDERAL FINANCIAL MANAGEMENT IMPROVEMENT ACT
FFRDC- Federally Funded Research and Development Center
FIB - FOCUSED ION BEAM
FLIS - FEDERAL LOGISTICS INFORMATION SYSTEM
FOB - FORWARD OPERATING BASE
FOC- FULL OPERATING CAPABILITY
FOS- FAMILY OF SYSTEMS
FPS- FINANCIAL PARTNER SYSTEM
FSG - FEDERATED SOFTWARE GROUP
FTE - FULL TIME EQUIVALENT
FWBT- FUNDS BALANCE WITH TREASURY
FYDP- FUTURE YEAR DEVELOPMENT PLAN
GA - GAP ANALYSIS
GaAs - GALLIUM ARSENIDE
GaN - GALLIUM NITRIDE
GCCs- GEOGRAPHIC COMBATANT COMMANDERS
GDE - GAS DIFFUSION ELECTRODE
GFP - GOVERNMENT FURNISHED PROPERTY
GIDEP - GOVERNMENT INDUSTRY DATA EXCHANGE PROGRAM
GIS - GEOGRAPHIC INFORMATION SYSTEM
GITI - GLOBAL INFOTEK, INCORPORATED
GPS - GOLBAL POSITIONING SYSTEM
GSA- GENERAL SERVICES ADMINISTRATION
GSG- GOVERNMENT STEERING GROUP
GTAS – GOVERNMENT TREASURY ACCOUNT ADJUSTED TRIAL BALANCE
HA - HUMANITARIAN ASSISTANCE
HAVE- HUMANITARIAN ASSISTANCE/DISASTER REIF ASSET VISIBILITY EXPERIMNT
HPA - HIGH POWER AMPLIFIER
HRM- HUMAN RESOURCE MANAGEMENT
HSCDS- HIGH SPEED CONTAINER DELIVERY SYSTEM
HSIO- HIGH SPEED ION OPTICS
IBEX2- INDUSTRIAL BASE EXTENSION AND EXECUTION
IC - INTEGRATED CIRCUITS
IC- INTEGRATED CIRCUITS
ICU-FST - IMPROVED COLLAPSIBLE URETHANE FUEL STORAGE TANKS
IDIQ - INDEFINITE DELIVERY INDEFINITE QUANTITY
IGT- INTER GOVERNMENTAL TRANSFER
InAIN - IDIUM ALUMINUM NITRIDE
InGaN - INDIUM GALLIUM NITRIDE
IP - INDUSTRIAL POLICY
IP- INTELLECTUAL PROPERTY
IP Man Tech - INDUSTRIAL PREPAREDNESS MANUFACTURING TECHNOLOGY
IPI- INFRASTRUCTURE AND PROCESS IMPROVEMENT
IPO- IVENTORY POLICY OPTIMIZATION
IPV- PRODUCT SUPPORT VENDORMBE
IR - INFARED
ISO - INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
IT - INFORMATION TECHNOLOGY
ITV - IN TRANSIT VISIBILITY
IUID- ITEM UNIQUE IDENTIFIER
JAIT - JOINT AUTOMATIC IDENTIFICATION TECHNOLOGY
JCIDS - JOINT CAPABILITY INTEGRATED DEVELOMPMENT SYSTEM
JCTD - JOINT CAPABILITY TECHNOLOGY DEMONSTRATION
JDDE - JOINT DEPLOYMENT AND DISTRIBUTION ENTERPRISE
JDMTP - JOINT DEFENSE MANUFACTURING TECHNOLOGY PANEL
JFCOM - JOINT FORCES COMMAND
JMIDS - JOINT MODULAR INTERMODAL DISTRIBUTION SYSTEM
JP-8 - JET PROPULSION FUEL
JPADS - JOINT PRECISION AIR DROP
JPAS- JOINT PERSONNEL ADJUDICATION SYSTEM

JRADS - JOINT RECOVERY AND DISTRIBUTION SYSTEM
JTIC- JOINT INTEROPERAABILITY TEST COMMAND
JTRS - JOINT TACTICAL RADIO SYSTEM
JVS- JOINT VERIFICATION SYSTEM
KIFC - KANSAS INTELLIGENCE FUSION CENTER
KPP - KEY PERFORMANCE PARAMETERS
L&MR - LOGISTICS & MATERIAL READINESS
LAV - LIGHT ARMORED VEHICLE
LIA - LOGISTICS INFO AGENCY
LIRC - LOGISTICS INFORMATION REVIEW CONCEPT
LIRC- LOGISTICS INFORMATION REVIEW CONCEPT
LMI - LOGISTICS MANAGEMENT INSTITUTE
LRIP - LOW RATE INITIAL PRODUCTION
LUT- LIMITED USER TESTING
MAE - MATERIAL ACQUSITION ELECTRONICS
MATTS - MARINE ASSET TAGGING AND TRACKING SYSTEM
MBE - MOLECULAR BEAM EPITAXY
MBE- MODEL BASE ENTERPRISE
MCCD - MARINE CORPS COMBAT DEVELOPMENT COMMAND
MCM - MULTI CHIP MODULES
MEA - MEMBRANE ELECTRODE ASSEMBLY
MEMS - MICRO ELECTRO MECHANICAL SYSTEM
MEP- MANUFACTURING TECHNOLOGY EXTENSION PARTNERSHIP
MEPS- MILITARY ENTRANCE PROCESSING STATION
MILSPEC - MILITARY SPECIFICATION
MLG - MAIN LANDING GEAR
MLL - MASK LESS LITHOGRAPHY
MLN - MEDICAL LOGISTICS NETWORK
mm - MILLIMETER
MMIC - MONOLITHIC MICROWAVE INTEGRATED CIRCUITS
MMPDS - METALLIC MATERIALS PROPERTIES DEVELOPMENT AND STANDARDIZATION
MOA- MEMORANDUM OF AGREEMENT
MOCVD - METAL ORGANIC CHEMICAL VAPOR DEPOSITION
MOSA- MODULAR OPEN SYSTEM ARCHITECTURE
MPO - METAL PROCESS OPTIMIZATION
MRAM - MAGNETIC RANDOM ACCESS MEMORY
MRE - MEALS READY TO EAT
MRL - MANUFACTURING READINESS LEAVELS
MRV- MOVEMENT REQUIREMENTS VISIBILITY
MTBF - MEAN TIME BETWEEN FAILURE
NAVSEA - NAVAL SEA SYSTEMS COMMAND
NCSU- NORTH CAROLINA STATE UNIVERSITY
NDAA - NATIONAL DEFENSE AUTHORIZATION ACT
NDSU- NORTH DAKOTA STATE UNIVERSITY
NFTD - NATIONAL FORGING TOOLING DATABASE
NII - NETCENTRIC INFRASTRUCTURE AND IMPLEMENTATION
NIL - NANO IMPRINT LITHOGRAPHY
NIST- NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
NLG - NOSE LANDING GEAR
nm - NANOMETER
NoMaDD - NODE MANAGEMENT AND DEPLOYABLE DEPOT
NOR- NEGATIVE OPERATING RESULTS
NRL - NAVAL RESEARCH LAB
NSA - NATIONAL SECURITY AGENCY
NSN - NATIONAL STOCK NUMBER
O&M - OPERATION AND MAINTENANCE
OCA - OTHER CONGRESSIONAL ADDS
OCO - OVERSEAS CONTINGENCY OPERATIONS
ODUSD - OFFICE OF THE DEPUTY UNDERSECRETARY OF DEFENSE
ONR - OFFICE OF NAVAL RESEARCH
OPNAV - OPEARTIONAL NAVY (OFFICE OF THE CHIEF OF NAVAL OPERATIONS)
ORTA - OFFICE OF RESEARCH AND TECHNOLOGY APPLICATIONS
PACOM - PACIFIC COMMAND
PAO - PUBILC AFFAIRS OFFICER
PDIT - PRODUCT DATA INTEGRATION TECHNOLOGIES
PDK - PORTABLE DEPLOYMENT KIT

PDR- PRELIMANARY DESIGN REVIEW
PDW - PROCUREMENT, DEFENSE WIDE
PKI- PUBLIC KEY INFRASTRUCTURE
PLT- PRODUCTION LEAD TIME
PM - PROGRAM MANAGER
PM/DS- PART MANAGEMENT/DATA SHARING
PMO - PROGRAM MANAGEMENT OFFICE
PPI - PLANNED POSITION INDICATION
PQDR- PRODUCT QUALITY DEFICIENCY REPORT
PR- PURCHASE REQUEST
PR- PURCHASE REQUEST
PrCB - PRINTED CIRCUIT BOARD
PROACT - PROCUREMENT READINESS OPTIMIZATION-ADVANCED CASTING TECHNOLOGY
PROFAST - PROCUREMENT READINESS OPTIMIZATION-FORGING ADVANCE SYSTEM TECHNOLOGY
Pt - PLATINUM
PTC- PRODUCT TEST CENTER
PV - PRIME VENDOR
QN - QUALITY NOTICE
R&D - RESEARCH AND DEVELOPMENT
R2Q - RP2 QUALIFICATION (ROCKET KEROSENE)
R3 - REUTILIZATION RISK REDUCTION
RDCIC - REGIONAL DEFENSE COMMAND INTEGRATION CENTER
RDT&E - RESEARCH, DEVELOPMENT, TEST & EVALUTATION
RF - RADIO FREQUENCY
RFID - RADIO FREQUENCY IDENTIFICATION DEVICE
RICE- REPORTS INTERFACE CONVERSION EXTENTIONS
RM - REFORMED METHANOL
ROI - RETURN ON INVESTMENT
SAPCO - SPECIAL ACCESS PROGRAMS COORDINATION OFFICE
SAR - SYNTHETIC APERTURE RADAR
SAW - SURFACE ACOUSTIC WAVE
SBIR - SMALL BUSINESS INNOVATIVE RESEARCH
SCM - SUPPY CHAIN MANAGEMENT
SDR - STRATEGIC DISTRIBUTION & REUTILIZATION
SDR - SUPPLY DISCREPANCY REPORT
SDVOSB - SERVICE DISABLED VETERAN OWNED BUSINESS
SFIS- STANDARD FINANCIAL INFORMATION STRUCTURE
SHS - SELF PROPAGATING HIGH TEMPERATURE SYNTHESIS
SiC - SILICON CARBIDE
SLPC - SINGLE LOAD PLANNING CAPABILITY
SME - SUBJECT MATTER EXPERT
SPRs- SOFTWARE PROBLEM REPORTs
SPX- STOCK PLANNING SYSTEM
SRD - SYSTEM REQUIREMENTS DOCUMENT
SSC- SERVICE SUPPORT CONTRACT
SSO - SINGLE SIGN ON
STO - STOCK TRANSPORT ORDER
STP - SHORT TERM PROJECT
SWNT - SINGLE WALLED CARBON NANOTUBE
T/R - TRANSMIT/RECEIVE
TAG - THE ADJUGENT GENERAL
TARDEC - THE UNITED STATES ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
TAV - TOTAL ASSET VISIBILITY
TDP - TECHNICAL DATA PACKAGE
TEES (TAMU) - TEXAS ENGINEERING EXPERIMENT STATIONS (TEXAS A&M UNIVERSITY)
TENTNET - TENT NETWORK FOR TECHNOLOGY IMPLEMENTATION
TFBSO - TASK FORCE TO IMPROVE BUSINESS AND STABILITY OPERATIONS
TMS- TRANSPORTATION MANAGEMENT SYSTEM
TQ - TECHNICAL QUALITY
TRL - TECHNOLOGY READINESS LEVEL
TSA - THERMAL STABILITY ADDITIVES
TTN - TRANSPORTATION TRACKING NUMBER
TWMS - TIMEWISE MANAGEMENT SYSTEMS
TWT - TRAVELING WAVE TUBES

UAV - UNMANNED AERIAL VEHICLE
UGR- UNITIZED GROUP RATIONS
um - MICRO MILLIMETER
URG - UNITIZED GROUP RATIONS
US - UNITED STATES
USDA - UNITED STATES DEPARTMENT OF AGRICULTURE
USMC - UNITED STATES MARINE CORPS
USMEPCOM- UNITED STATES MILITARY ENTRANCE PROCESSING COMMAND
USP - UNITED STATES PHARMACOPIA
USSGL- UNITED STATES STANDARD GENERAL LEDGER
USSOCOM- UNITED STATES SOUTHERN COMMAND
USTRANSCOM - UNITED STATES TRANSPORTATION COMMAND
VED - VIRTUAL ENTERPRISE DEVELOPMENT
VHP - VEHICLE FUEL CELL AND HYDROGEN LOGISTICS PROGRAM
VINS - VET BIZ INITIATIVE FOR NATIONAL SUSTAINMENT
VIPS- VIRTUAL INTERACTIVE PROCESSING SYSTEM
VR- VIRTUAL REALITY
WAWF- WIDE AREA WORK FLOW
WSS - WEAPON SYSTEM SUSTAINMENT
XML - EXTENSABLE MARKUP LANGUAGE

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603264S: *Agile Transportation for the 21st Century (AT21) Theater Capability*

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	0.750	0.998	-	0.998	0.997	0.997	0.997	1.014	Continuing	Continuing
1: *Agile Transportation for the 21st Century (AT21) Theater Capability*	-	0.750	0.998	-	0.998	0.997	0.997	0.997	1.014	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Geographic Combatant Commanders (GCCs) lack an automated capability to (1.) manage transportation planning and execution processes for cargo and passenger movement within their respective theaters of operation or (2.) match global movement requirements against available lift assets to produce an optimized transportation schedule that meets delivery requirements. AT21 Increment 3 Theater Capability will provide continuous visibility, collaboration, automated processes, alerts and an exception management capability supporting transportation planning and execution for theater force and sustainment movements. When fully implemented, it will provide opportunities to streamline cargo movement by optimizing capacity and provide complete visibility by synchronizing theater movements with strategic movements.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	0.750	1.000	-	1.000
Current President's Budget	-	0.750	0.998	-	0.998
Total Adjustments	-	-	-0.002	-	-0.002
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY 2012 Departmental Fiscal Guidance	-	-	-0.002	-	-0.002

Change Summary Explanation

FY 2012 Departmental Fiscal Guidance: $.002M

C. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Agile Transportation for the 21st Century (AT21) Theater Capability	-	0.750	0.998
FY 2011 Plans:			

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603264S: *Agile Transportation for the 21st Century (AT21) Theater Capability*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Perform collaboration and analysis effort with selected COCOMs to scope initial process improvement and optimization efforts for targeted theater of operation. Develop Concept of Operations, select contractors to demonstrate proof of concept, select contractor and begin COTS prototype development. Begin development of a theater tool to improve decision-making by providing prioritized courses of action to meet logistics delivery timelines - Movement Requirements Visibility - Theater, Joint Capabilities Technology Demonstration (MRV-T JCTD). ***FY 2012 Plans:*** Continue to demonstrate proof of concept through use of COTS products and complete work on prototype devleopment. Continue development of a theater tool to improve decision-making by providing prioritized courses of action to meet logistics delivery timelines - Movement Requirements Visibility - Theater, Joint Capabilities Technology Demonstration (MRV-T JCTD).			
Accomplishments/Planned Programs Subtotals	-	0.750	0.998

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 0603713S: *Deployment and Distribution Enterprise Technology MRV-T Joint Capability Technology Demonstration (JCTD)*		0.120	0.500		0.500					Continuing	Continuing
• 0603648D8Z: *OSD (RFD) Movement Requirement Visibility-Theater (MRV-T) Joint Capability Technology Demonstration (JCTD)*		2.332	2.250		2.250					Continuing	Continuing

E. Acquisition Strategy

Milestone B decisions for Increment 3 is planned in FY 2011 with acquisition strategy included in Milestone B activities.

F. Performance Metrics

Critical enterprise-level transportation management and execution capabilities to improve performance in theater transportation planning and execution operations in support of broader Joint Deployment Distribution Enterprise (JDDE) improvements being implemented in the larger AT21 program.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*				R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	50.559	20.542	23.887	-	23.887	24.350	20.432	20.721	21.076	Continuing	Continuing
1: *Medical Logistics Network (MLN)*	2.268	2.837	2.866	-	2.866	2.900	2.948	2.998	3.049	Continuing	Continuing
2: *Weapon System Sustainment (WSS)*	4.500	5.637	5.700	-	5.700	5.765	5.859	5.961	6.064	Continuing	Continuing
3: *Supply Chain Management (SCM)*	1.996	3.005	3.093	-	3.093	3.059	3.177	3.166	3.220	Continuing	Continuing
4: *Strategic Distribution & Reutilization (SDR)*	2.857	3.601	5.705	-	5.705	5.806	3.787	3.853	3.919	Continuing	Continuing
5: *Energy Readiness Program (ERP)*	1.740	2.179	3.696	-	3.696	3.966	2.265	2.305	2.344	Continuing	Continuing
6 : *Defense Logistics Information Research (DLIR)*	1.843	2.304	2.329	-	2.329	2.357	2.396	2.438	2.480	Continuing	Continuing
7: *Tent Network for Technology Implementation (TENTNET)*	0.848	0.979	-	-	-	-	-	-	-	Continuing	Continuing
8: *Other Congressional Adds (OCAs)*	34.507	-	-	-	-	-	-	-	-	Continuing	Continuing
9: *Applied Research Initiative*	-	-	0.498	-	0.498	0.497	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The central idea of the Focused Logistics Joint Functional Concept "is to build sufficient capacity into the sustainment pipeline, exercise sufficient control over the pipeline from end to end, and provide a high degree of certainty to the supported joint force commander that sustainment, and support will arrive where needed and on time." The Defense Logistics Agency (DLA) Research and Development (R&D) program helps achieve this vision by pioneering advanced logistics concepts and business processes that provides the leanest possible infrastructure, the use of the best commercial and government sources, and the application of business practices. The Logistics R&D program develops and demonstrates high risk, high payoff technology that will provide a significantly higher level of support at lower costs, than would be otherwise attainable. The program has a proven track record of implementation and benefits. One example is the Department of Defense (DOD) Electronic MALL (EMALL). DOD EMALL was the first web based, distributed architecture on-line ordering capability. It has been adopted by the Army, Navy and the Department of Homeland Security. DLA's overall Log R&D program has demonstrated positive net present value and a positive return on investment.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	19.043	20.542	24.007	-	24.007
Current President's Budget	50.559	20.542	23.887	-	23.887
Total Adjustments	31.516	-	-0.120	-	-0.120
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.215	-			
• FY2010 Congressional General Reductions	-0.272	-	-	-	-
• FY 2010 Congressional Additions	33.003	-	-	-	-
• FY 2012 Departmental Fiscal Guidance	-	-	-0.058	-	-0.058
• FY 2012 Defense Efficiency - Service Support Contractors	-	-	-0.062	-	-0.062

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Project: 8: *Other Congressional Adds (OCAs)*		
Congressional Add: *Aging Systems Sustainment and Enabling*	2.388	-
Congressional Add: *Alternative Energy from Organic Sources*	5.969	-
Congressional Add: *Biofuels Program*	1.591	-
Congressional Add: *Commodity Management System Consolidation*	1.591	-
Congressional Add: *Continuous Acquisition and Lifecycle and Integrated Data Environment and Defense Logistics Enterprise Services Program*	3.183	-
Congressional Add: *Fuel Cell Hybrid Battery Manufacturing for Defense Operations*	0.796	-
Congressional Add: *Defense Fuel cell Locomotive*	2.388	-
Congressional Add: *Next Generation Manufacturing Technologies Initiative*	1.592	-
Congressional Add: *Progressive Research for Sustainable Manufacturing*	1.194	-
Congressional Add: *Reduced Cost Supply Readiness*	1.193	-
Congressional Add: *Vehicle Fuel Cell and Hydrogen Logistics Program*	6.367	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Congressional Add: *Woody Biomass Conversion for JP-8 Fuel*	1.273	-
Congressional Add: *Radio Frequency Identification Technologies*	0.995	-
Congressional Add: *Cellulosic-Derived Biofuels Research*	2.387	-
Congressional Add: *California Enhanced Defense Small Manufacturing Suppliers Program*	1.600	-
Congressional Add Subtotals for Project: 8	34.507	-
Congressional Add Totals for all Projects	34.507	-

Change Summary Explanation

FY2010 Congressional General Reductions: $ .272M

FY 2010 Congressional Additions: $33.003

FY 2012 Departmental Fiscal Guidance Reductions: $ .058M

FY 2012 Defense Efficiency - Service Support Contractors: $ .062M

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 1: *Medical Logistics Network (MLN)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Medical Logistics Network (MLN)*	2.268	2.837	2.866	-	2.866	2.900	2.948	2.998	3.049	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

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

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

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Medical Logistics Network Accomplishments/Plans	2.268	2.837	2.866
FY 2010 Accomplishments: DMLT: Developed a collaborative acquisition planning process for medical items in support of GEN IV medical/surgical Prime Vendor contract. Netcentric Infrastructure and Implementation (NII): Expanded external customer web services' pilots to full production Service Oriented Architecture features.			
FY 2011 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 1: *Medical Logistics Network (MLN)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
DMLT - DMLT will pursue Expeditionary Medical Logistics (EML) as a subspiral effort. EML will identify and/or develop the 'to-be' capabilities and processes required to prepare for, transition to, and sustain Health Readiness support for expeditionary operations, addressing identified gaps and 'lessons learned' in order to achieve seamless and responsive support to expeditionary medical requirements. The EML sub-spiral will incorporate functional processes identified in DML mission threads into a collaborative operational framework to plan, prepare, project and provide operational medical logistics support. It will include the development of architecture artifacts and identify functional solutions for further validation through doctrine, organization, training, leadership and education, personnel and facilities (DOTLMS-PF) assessment and JCIDS, as appropriate to enable Operations planning, Acquisition, Deployment, Sustainment, Disposition, and Data resources supporting expeditionary operations. NII - Enhance initial web services framework to fully integrate standard repeatable web services and streamline development and fielding procedures. ***FY 2012 Plans:*** MLN has submitted three new start charters which will replace current MLN projects towards the end of FY11 and will be in full development in FY 12. The efforts, if approved, will automate several manual, laborious medical business practices including determining "fair and reasonable" pricing for medical products and performing analytical queries of source data; eliminating the need for IT resources to be engaged in assisting medical business analysts. In addition MLN will create a strategic sourcing functionality that will allow the Defense Medical Logistics community to standardize on specific medical products; giving the Services the opportunity for greater cost savings associated with volume sales.			
Accomplishments/Planned Programs Subtotals	2.268	2.837	2.866

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

DMLT: Currently in last option. New work will be competitively bid on Defense Logistics Standard Support Blanket Purchase Agreement (DMLSS-W BPA).

E. Performance Metrics

DMLT: 1.) Eighty seven percent of Gen IV Requirements are supported by Arch Products. Documented the business processes that allowed both the vendor and the government to fully understand the business needs supporting the developed statement of work and clarified the contract requirements to minimize future changes to the contract. This also supports the functional requirements for future development of systems. 2.) Measurement of the progress of compliance of mandated Executive Agent (EA) usage within the DML Enterprise. The Clinger-Cohen Act and various other laws and regulations require complete enterprise architecture. 3.) Percentage alignment between Balanced Scorecard Transformation Initiatives and Enterprise Architecture.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
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COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2: *Weapon System Sustainment (WSS)*	4.500	5.637	5.700	-	5.700	5.765	5.859	5.961	6.064	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

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

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Weapon System Sustainment Accomplishments/Plans	4.500	5.637	5.700
FY 2010 Accomplishments: Planning Process Improvement: The next generation inventory model development was successfully completed and the transition process initiated. The peak policy automation project also was completed, and a smooth transition is in progress to DORRA, which has the responsibility to set the peak policies. The FY2009 starts in emulation, demand reduction and forecast analytics were completed and transition initiated. The emulation project has led to a follow-on effort at the request of the Process Owner, entitled Enterprise Business Solution (EBS) Planning Laboratory, to continue to use the emulation capability to evaluate potential improvements to the EBS demand planning software suite. New projects were initiated to develop a multi-echelon next generation inventory model and an integrated stocking model that integrates the next generation inventory model for R items and the Peak Policy for N items with a more effective method of managing the movement of items between the R and N categories and a new economic retention method for controlling disposal. In addition a new effort was initiated to evaluate potential improvements to Inventory Policy Optimization (IPO). Technical/Quality Process Improvement: The automated capability to search Supply Discrepancy Reports (SDRs) and flag systemic item or supplier issues was completed and ownership assumed by the Tech/Quality process owner, who has responsibility for subsequent transition to DLA Aviation, Land & Maritime, and Troop Support sites. The project to recommend			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
ways to automate aspects of the Quality Notice (QN) resolution process was completed and transitioned with specific implementation recommendations to the T/Q process owner and the key stakeholders. The Logistics Information Review Concept (LIRC) analysis effort to identify sustainment impacts and potential improvements to the initial cataloging process was completed with recommendations provided to the T/Q process owner and the DLA Logistics Information Services (DLIS). An FY 2009 WSS project successfully demonstrated a database tool capability to extract and consolidate Product Quality Deficiency Report (PQDR) information at the part level and higher. An FY 2010 pilot effort was initiated to maximize the utility of this new capability and demonstrate business processes to identify, consolidate, investigate, and resolve systemic issues. A project was initiated to define requirements for process improvements, including a feedback mechanism, for alerting customers about product quality issues, a follow-on to the QN project referenced above. The initial phased effort to develop a strategic roadmap for the process owner for identifying and dealing with counterfeit parts was completed, and results to date and recommendations for future efforts successfully briefed by the process owner to the Director. A project was initiated entitled Part Management / Data Sharing (PM/DS) to demonstrate how sharing information about commodity parts can help reduce cost while improving lead times and support to the War Fighter, and that sharing, standardizing and exchanging OEM, Government and supply chain part data has sufficient mutual advantage to warrant a broader undertaking. The Commercial and Government Entity Code (CAGE) Hopping root cause analysis project neared completion, with strong potential for a pilot activity on selected commodities to quantify expected improvements. A Product Test Center (PTC) capability assessment was completed with recommendations for sizing the capability to fit DLA's requirements. Procurement Process: A project to assess the feasibility of using Radio Frequency Identification Device (RFID) or other automatic identification technology to improve GFP inventory accuracy was awarded and is on track for successful completion in early FY2011. A new project was initiated to understand issues with receipt and destination acceptance for direct vendor delivery (DVD) and Industrial Product-Support Vendor (IPV) shipments as they impact DOD's ability to correctly pay supplier invoices and identify, analyze and recommend alternatives in the near-, mid-, and long-term to address those issues. ***FY 2011 Plans:*** FY 2011 Plans Planning Process Improvement: Efforts will continue to transition the Peak Policy by continuing the pilot at DLA Aviation started in late FY2010, starting a pilot at DLA Aviation, and gaining process owner approval of a plan to complete transition. A pilot project will be initiated to start the process of transitioning the next generation inventory model for the wholesale level to daily use within DLA and continued through the year, and other required transition activities initiated as defined jointly with the planning process owner. The FY2010 project to develop and validate the benefits of a multi-echelon version of the next generation inventory model applicable to wholesale and retail levels will be completed late in the year and efforts initiated to define a pilot program as the first step in transition. FY2010 projects will be completed that will provide and operate an EBS Planning Laboratory that will enable			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
tuning the existing EBS Demand Classification software to optimize demand planning performance, define requirements for an approach to manage the risk of extreme values in the key performance metrics of unfilled orders, PRs and investment levels, and define requirements for an integrated stocking model that integrates the next generation inventory model for R items and the Peak Policy for N items with a more effective method of managing the movement of items between the R and N categories and a new economic retention method for controlling disposal. Follow-on development, validation and transition activities for these FY2010 starts will be defined jointly with the planning process owner, and activities initiated as appropriate. New FY2011 projects in the planning process area will be initiated as a result of problem definition efforts undertaken with the planning process team in FY2010 and early FY2011. Technical/Quality Process Improvement: The FY 2010 projects dealing with the piloting of new business processes containing specific review procedures for assessing PQDRs to identify systemic quality issues so that the root causes can then be evaluated, and the effort to define process improvements for specific notifications to customers of quality alerts will be completed and transition planning and support activities undertaken. Pilot activities and business process improvement recommendations resulting from the Counterfeit Parts strategic roadmap project will focus on transitioning the process improvements into daily use within the DLA Aviation, Land & Maritime, and Troop Support sites, as well as HQ. The PM/DS project initiated in FY 2010 will be expanded to include additional OEM participation and commodity part data sharing, and benefits assessments and transition recommendations will be developed. The CAGE Hopping analysis effort will be completed and business process improvement pilot recommendations will made to the T/Q process owner for subsequent agency socialization. Selected pilot activities focused on PTC capability enhancement and benefits validation will be initiated. A new project assessing the viability of product marking with DNA to prevent introduction of counterfeits in the supply chain will be initiated. Where applicable, follow-on development, validation and transition activities for these FY 2011 projects will be defined jointly with the T/Q process owner, and activities initiated as appropriate. Additional, new FY 2011 projects in the T/Q process area will be initiated as a result of problem definition efforts undertaken with the T/Q process team in FY 2010 and early FY 2011. Procurement Process Improvement: The project to assess the feasibility of using RFID or other automatic identification technology to improve GFP inventory accuracy will be completed early in the year and the results transitioned to J-74. The Wide Area Workflow (WAWF)-focused project initiated in FY2010 will be completed to understand issues with receipt and destination acceptance for Direct Vendor Delivery (DVD) and Industrial Product-Support Vendor (IPV) shipments as they impact DOD's ability to correctly pay supplier invoices and recommend alternatives to address those issues will be completed and the recommendations delivered to J-33. A follow-on pilot project will be initiated to validate the recommendations and prove their benefits as the first step in transitioning the results into daily use if desired by the J-33 sponsor. New FY2011 projects in the			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 2: *Weapon System Sustainment (WSS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
procurement process area will be initiated as a result of problem definition efforts undertaken with the procurement process team in FY2010 and early FY2011. ***FY 2012 Plans:*** Planning Process Improvement: Efforts to transition Peak Policy should be completed after process owner acceptance in FY2011 of the plan. Efforts will continue to transition the next generation inventory model for the wholesale level and to pursue transitioning the next generation inventory model applicable to both the wholesale and retail levels. Transition activities will be initiated for the projects completed in FY2011 that will enable tuning the existing EBS Demand Classification software to optimize demand planning performance, define requirements for an approach to manage the risk of extreme values in the key performance metrics of unfilled orders, purchase requests (PRs) and investment levels, and define requirements for an integrated stocking model that integrates the next generation inventory model for R items and the Peak Policy for N items with a more effective method of managing the movement of items between the R and N categories and a new economic retention method for controlling disposal. FY2011 new start projects will be completed and transition activities initiated. New FY2012 projects in the planning process area will be initiated as a result of problem definition efforts undertaken with the planning process team in FY2011 and early FY2012. Technical/Quality Process Improvement: Pilot activities and business process improvement recommendations resulting from the Counterfeit Parts strategic roadmap project will be expanded to address related identification and prevention business process improvements throughout the supply chain, including at supplier and retail inventory sites. The PM/DS project will be continued and expanded to include demonstration of improved business processes for product data specialists at the DLA Aviation, Land & Maritime, and Troop Support sites. Pilot activities in support of PTC capability enhancement and benefits validation will be completed and transition activities initiated. Additional pilot activity will be undertaken to demonstrate functional application of DNA product marking for counterfeit part identification and prevention to include affected DLA processes. New project starts will be defined and initiated in the T/Q interest of areas of modern technical data / model based enterprise (MBE) demonstrations and Item Unique Identification (IUID) marking technologies. Where applicable, follow-on development, validation and transition activities for these FY 2012 projects will be defined jointly with the T/Q process owner, and activities initiated as appropriate. Additional, new FY 2012 projects in the T/Q process area will be initiated as a result of problem definition efforts undertaken with the T/Q process team in FY 2011 and early FY 2012. Procurement Process Improvement: DVD acceptance follow-on and other projects initiated in FY2011 will be completed. New projects will be initiated as a result of problem definition efforts undertaken within the Agency in FY2010 and FY2011.			
Accomplishments/Planned Programs Subtotals	4.500	5.637	5.700

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 2: *Weapon System Sustainment (WSS)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

The metric is percent of completing demonstration projects transitioning per year. In FY 2010, nine of fourteen completed projects transitioned.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 3: *Supply Chain Management (SCM)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3: *Supply Chain Management (SCM)*	1.996	3.005	3.093	-	3.093	3.059	3.177	3.166	3.220	Continuing	Continuing

A. Mission Description and Budget Item Justification

DLA operates in a very dynamic environment. To meet customer expectations DLA must be able to address problems in a timely manner and be able to respond to emerging opportunities. The Supply Chain Management Program within R&D provides the Agency with the resources needed to quickly take advantage of new ideas emerging from the Center Commanders, Process Owners, or Staff Directors.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Supply Chain Management Accomplishments/Plans	1.996	3.005	3.093
FY 2010 Accomplishments: Supply chain management initiated a significant effort with the National Institute of Standards and Technology (NIST) to bring additional suppliers, particularly small businesses, into the DLA supplier base. The NIST Manufacturing Technology Extension Partnership (MEP) has facilities in all 50 States and helps small and medium manufacturing companies improve their processes. Working with NIST DLA Land and Maritime is developing additional sources for sole-source and no-source parts. Stand unit pricing. Using emerging technology from another R&D program, a project was completed that allowed adjustments to FY 10 standard unit pricing thus avoiding significant negative operating result (NOR) impacts Contract Pricing for catalog items – it was an FY 09 project call start that's transitioning into production. Cost avoidances resulting from this program are estimated to be $10M over the FYDP.			
FY 2011 Plans: During FY 11 the Supply Chain Management will be conducting a number of supply chain analyses to identify emerging strategies for achieving DLA goals. These analyses will be aimed at improving interface among DLA, DLA's customers, and the DLA supplier base. In particular, SCM will be examining the emerging technologies associated with engineering data capture, archiving, and discrimination.			
FY 2012 Plans: During FY 12 Supply Chain Management will invest in the technologies to implement advanced Supply Chain Management techniques into DLA's Supply Chains. DLA is expecting to reduce the Production Lead-time needed to produce critical DLA Land and Maritime items.			
Accomplishments/Planned Programs Subtotals	1.996	3.005	3.093

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 3: *Supply Chain Management (SCM)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Competitive Broad Area Announcement.

E. Performance Metrics

Implementation of advanced technologies into DLA's supply chain operations.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 4: *Strategic Distribution & Reutilization (SDR)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4: *Strategic Distribution & Reutilization (SDR)*	2.857	3.601	5.705	-	5.705	5.806	3.787	3.853	3.919	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program delivers improvements and extensions to DLA Distribution and Disposition capabilities - especially for deployed warfighters and technology insertions to enhance DLA's worldwide distribution, disposition, reutilization, and de-militarization capabilities. The DLA Distribution focus is on quickly establishing distribution and disposition operations in new theaters of operation, whether for humanitarian relief or military purposes, cutting customer wait times and reducing demands on strategic airlift. The DLA Disposition focus is on reducing risks that militarily-sensitive equipment will be sold to potential enemies or other parties that could use the surplus material for nefarious purposes. Transition organizations are DLA Distribution and DLA Disposition Services.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Strategic Distribution & Reutilization (SDR) Accomplishments / Planned Program	2.857	3.601	5.705
FY 2010 Accomplishments: Supported Army transition and fielding of Node Management to sustain Afghanistan surge operations. Contributed to Army led Joint Recovery and Distribution System (JRaDS) Joint Capability Technology Demonstration (JCTD). Defined requirements and selected the site for a DLA Disposition Simulation Lab to allow assessment of disposition training and technology development efforts in a controlled environment. Launched requirements definition and CONOPs development for an ICIS-based stock planning system (SPX) for overseas contingencies. Planned Expeditionary DLA Disposition capability development. Developed and demonstrated Humanitarian Assistance/Disaster-Relief Asset Visibility Experiment (HAVE) capabilities to support CONUS disaster recovery requirements.			
FY 2011 Plans: Establish and transition DLA Disposition Simulation Lab. Capture baseline operational and training metrics. Demonstrate and assess improvements to the ICIS system to facilitate Expeditionary Depot stock planning. Develop and demonstrate HAVE capabilities to support OCONUS disaster recovery requirements. Through the Life-Cycle Reutilization Technology Initiative, launch development and assessment of methods and tools necessary to identify and properly manage Service-disposed property. Plan First-Destination Transportation & Packaging Initiative (FDTPI) trial. Plan implementation of the Industrial Base Extension & Execution (IBex2) system.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 4: *Strategic Distribution & Reutilization (SDR)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Conduct DLA Disposition development projects in the DLA Disposition Simulation Lab. Demonstrate and assess SPX and HAVE capabilities. Conduct initial trials of FDTPI. Begin development and demonstration of IBex2 capabilities. Develop humanitarian assistance demonstration plans. Support technology transition planning.			
Accomplishments/Planned Programs Subtotals	2.857	3.601	5.705

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 5: *Energy Readiness Program (ERP)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
5: *Energy Readiness Program (ERP)*	1.740	2.179	3.696	-	3.696	3.966	2.265	2.305	2.344	Continuing	Continuing

A. Mission Description and Budget Item Justification

Program Management Office Support (PMO) for developing program strategies and goals, preparing documentation for the program, and performing quick reaction studies, including Congressionally Mandated Studies (CMS), and analysis. Alternate Energy Development (AED) to include test and certification to support the addition of synthetic and alternative fuels to mobility fuel specifications and acquisition plan; renewable fuels studies and planning; continued study of directives related to the implementation of alternative fuels and renewable energy. Improving Class IIIB supply chain through Current Product Improvement (CPI) (e.g. the study and development of fuel additives), and Infrastructure & Process Improvement (IPI) (e.g. the development of analytical tools).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Energy Readiness Program (ERP) Accomplishments/Plans	1.740	2.179	3.696
FY 2010 Accomplishments: Continued PMO support in program implementation and planning ($.07 PMO). Commenced FY10 NDAA Section 334 Study ($0.396 CMS). Initiated Alternative Fuel Feedstock Study ($1.0 AED), Feedstock Data Capture Analysis ($.25 AED), Aerospace Kerosene Qualification Model Development ($0.1 IPI). Continued support of testing and approval of additional +100 Thermal Stability Additives ($.20 CPI).			
FY 2011 Plans: Continued PMO support in program implementation and planning ($.329 PMO/CMS), Continued support of alternative/renewable energy solution study, test, and demonstration ($0.9 AED). Continued support of Aerospace Kerosene Qualification Model Development ($0.15 IPI). Continued support of testing and approval of additional +100 Thermal Stability Additives ($.300 CPI). Initiate collapsible alternative fuel storage tank study ($.5 IPI).			
FY 2012 Plans: Continued PMO support in program implementation and planning ($.415 PMO/CMS), Continued support of alternative/renewable energy solution study, test, and demonstration ($1.4 AED). Support of infrastructure/process improvements for mobility fuels and development for renewable energy solutions ($1.4 IPI). Continued support to improve petroleum products ($.5 CPI).			
Accomplishments/Planned Programs Subtotals	1.740	2.179	3.696

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 5: *Energy Readiness Program (ERP)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N//A

E. Performance Metrics

Successful program documentation and support to include timely budget delivery and programmatic details (PMO). Successful identification of alternative drop-in replacement fuels suitable for further testing and certification (AED). Successful development/demonstration of alternative/renewable energy solutions suitable for implementation. Successful implementation of aerospace kerosene qualification model (IPI). Successful completion of testing additional +100LT Thermal Stability Additives and incorporation into MILSPEC (CPI).

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 6 : *Defense Logistics Information Research (DLIR)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
6 : *Defense Logistics Information Research (DLIR)*	1.843	2.304	2.329	-	2.329	2.357	2.396	2.438	2.480	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

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

DLIR is working several short term projects in the first area of interest only.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Defense Logistics Information Research (DLIR) Accomplishments/Plans	1.843	2.304	2.329
FY 2010 Accomplishments: From the FY 2009 short-term projects – continue to award/fund proposals for the remaining base partner contract. Capturing more timely, accurate and complete data for supply item descriptions that support such logistics processes as procurement, technical quality, packaging, standardization, transportation, and disposal/demilitarization. One project, Technical Data Exchange Pilot within Model Base Enterprise, has been awarded. This pilot project will extract data for the Air Forces' A-10 wing replacement program using 3 Dimensional models instead of the traditionally used 2 Dimensional drawings. It is intended to provide more complete and accurate information for the life-cycle of the wing replacement program and ultimately reduce costs. It will also allow DLA to keep pace with private industry as the enterprise changes its business practices to adapt to changing technology.			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	**PROJECT** 6 : *Defense Logistics Information Research (DLIR)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
DLIR is funding two projects for the DLA Office of Operations Research and Resource Analysis (DORRA). One project will develop an enterprise parametric search and data mining requirements document. The other will develop a process to share information about commodity parts. ***FY 2011 Plans:*** The remaining two DLIR projects will be done simultaneously with the A-10 wing replacement project. Both relate to Technical Data Package (TDP) business process improvement. They will use something like model-based engineering, manufacturing and sustainability to obtain and extract information into the federal catalog system and meet contractual requirements for logistics information. The intent is to move away from paper-based technical data and move to computer-based models to obtain data. This will allow DLA to obtain more and better quality data. One of the projects will involve identifying all information needed for technical data packages using model base enterprise. The other involves working with the Army and Navy to develop a web-based tool to assist in writing technical data package requirements in government contracts. For promoting internal efficiencies, these tools are being pursued in order to provide Defense Logistics Information Service with more productive and efficient technologies by enhancing the use of information technology and reducing the human footprint required. Using advanced technologies to capture technical data and identifying what technical data is needed for logistics will improve the quantity and quality of logistics information. This will enable DLA Logistics Information Service to manage its resources better and provide more services by reducing costs and improving productivity. It will also reduce costs by improving the quality and quantity of logistics information. ***FY 2012 Plans:*** Anticipate issuing Broad Agency Announcement.			
Accomplishments/Planned Programs Subtotals	1.843	2.304	2.329

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Improved quality of logistics data.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 7: *Tent Network for Technology Implementation (TENTNET)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
7: *Tent Network for Technology Implementation (TENTNET)*	0.848	0.979	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: TENTNET Accomplishments/Plans	0.848	0.979	-
FY 2010 Accomplishments: Shop Floor Automation: This project is demonstrating and documenting the increased surge capacities and reductions in manufacturing costs that can be achieved by introducing automated seam-welding and material handling equipment into key bottleneck areas in the tent manufacturing process. It will also determine the ROI for full roll-out under various surge scenarios. Have installed automated movement system and primary welder at the manufacturing site and placed in operation supporting an initial set of production. E-Mall Access for TENTNET: This project will make it possible for MilSpec Tent information to be available to all EMALL users. It will expand the number of tent and shelter products that have rich technical and performance information available on DOD EMALL. The project is structured to benefit the entire tent manufacturing community by making their product more visible and, more importantly, it will improve the quality of product information available to the warfighter. Have completed data collection and web design necessary to add seven additional MILSPEC tents to E-Mall. New Start Extension of Supply Chain Simulation project: This represents additional tasking for an existing project completed in FY10 that developed a manufacturing supply chain simulation model. The model simulates the capability of the tent supply chain to surge production under varying conditions and requirements. This additional task will enhance the model by adding a simulation conversion methodology and applying the model to an additional supply chain for validation. We expect this project to produce an effective decision making tool for DLA's Industrial Capabilities Programs allowing program management to evaluate the effect of placing buffer stocks at various levels within the supply chain.			
FY 2011 Plans: Shop Floor Automation: This project will demonstrate and document the increased surge capacities and reductions in manufacturing costs that can be achieved by introducing automated seam-welding and material handling equipment into key			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 7: *Tent Network for Technology Implementation (TENTNET)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
bottleneck areas in the tent manufacturing process. It will also determine the ROI for full roll-out under various surge scenarios. Plans include completing equipment installation and conducting full production runs. E-Mall Access for TENTNET: This project will make it possible for MilSpec Tent information to be available to all EMALL users. It will expand the number of tent and shelter products that have rich technical and performance information available on DOD EMALL. The project is structured to benefit the entire tent manufacturing community by making their product more visible and, more importantly, it will improve the quality of product information available to the warfighter. Plans include completing data collection and web design for three additional MILSPEC tents, complete modifications, and develop web-based training capability. Extension of Supply Chain Simulation project: This represents additional tasking for an existing project. The project will simulate the capability of the tent supply chain to surge production under varying conditions and requirements. We expect this project to produce an effective decision making tool for DLA's Industrial Capabilities Programs allowing program management to evaluate the effect of placing buffer stocks at various levels within the supply chain. Anticipate completion by Sept 2011.			
Accomplishments/Planned Programs Subtotals	0.848	0.979	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

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

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 8: *Other Congressional Adds (OCAs)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
8: *Other Congressional Adds (OCAs)*	34.507	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: Aging Systems Sustainment and Enabling ***FY 2010 Accomplishments:*** This program has been in operation with congressional funding since 1994. Its current objectives are to: expand the industrial supply base in the Oklahoma area, identify, nurture and certify companies to participate in the procurement processes through their electronic Virtual Enterprise Development (VED) - of which, 65% are registered as 8A, minority owned, veteran owned, or Hub Zone, and to introduce technology applications and product enhancements through reverse engineering or redesign.	2.388	-
Congressional Add: Alternative Energy from Organic Sources ***FY 2010 Accomplishments:*** The objective of this program is to evaluate an old technology using new advances in genetic engineering; this process stimulates various strains of algae to produce oil from carbohydrates as a renewable alternative to petroleum in the refining of diesel and jet fuel.	5.969	-
Congressional Add: Biofuels Program ***FY 2010 Accomplishments:*** The objective of this program is to develop advanced biofuel blends from biomass feed stocks to replace JP-8 fuels. Results may alleviate dependence on a single biomass source for fuels. In contrast to biodiesel or ethanol, these advanced fuel blends will be derived from both plant carbohydrates and plant oils.	1.591	-
Congressional Add: Commodity Management System Consolidation ***FY 2010 Accomplishments:*** The objective of this program is to provide a flexible tool to optimize Depot part ordering while improving knowledge management via collection of Point-of-Use data. The program will 1) Provide a flexible software interface between weapon system's Interactive Electronic Technical Manual (IETM), Federal Logistics Information System, and Service retail ordering system and 2) capture and maintain	1.591	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 8: *Other Congressional Adds (OCAs)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
a historical record of a maintainer's part ordering actions to improve forecasting and maintenance. Results are expected to help optimize inventory forecasts.		
Congressional Add: Continuous Acquisition and Lifecycle and Integrated Data Environment and Defense Logistics Enterprise Services Program ***FY 2010 Accomplishments:*** This program is a group of projects designed to promote information technology as a key element in achieving war fighter superiority in the 21st century. Objectives include: supporting the warfighter and Overseas Contingency Operations (OCO) with customs clearance of Department of Defense (DOD) shipments, developing Government Industry Data Exchange Program (GIDEP) Next Generation System focused on the Diminishing Manufacturing Source and Material Shortage (DMSMS) centralized database, logistics transformation and nanotechnology.	3.183	-
Congressional Add: Fuel Cell Hybrid Battery Manufacturing for Defense Operations ***FY 2010 Accomplishments:*** The objective of this project is to advance fuel cell systems for class 2 Material Handling Equipment that provide sustained and improved performance. The project will optimize reduced balance of plant for a fuel cell system with a hybrid battery design and complete final build of 5 hybrid battery fuel cells, integrating into forklifts and support a 6 month field demonstration at DLA Distribution Services Warner Robins, GA.	0.796	-
Congressional Add: Defense Fuel cell Locomotive ***FY 2010 Accomplishments:*** This program is a continuation of Fuel Cell Locomotive work to build, evaluate and report on the performance of a hybrid fuel cell locomotive using the design previously worked under FY 2007 funding. Funding is being applied to complete the integration of a fuel cell switcher locomotive by installing a 350 bar composite wrapped compressed hydrogen storage system, a Direct Current (DC) to DC electric converter to provide necessary voltage requirements for onboard equipment and a power to grid processing unit to conduct testing. Accomplishments to date include systems designed and largely built with current work focusing on system testing and integration.	2.388	-
Congressional Add: Next Generation Manufacturing Technologies Initiative ***FY 2010 Accomplishments:*** The objective of this program is to develop and demonstrate a virtual reality (VR) front-end to facilitate collaborative design. The project will 1) evaluate solutions to link Computer Aided Design (CAD) VR, 2) couple VR user interfaces into CAD packages, and 3) develop capability for multiple sites/suppliers to simultaneously view the same virtual prototype.	1.592	-
Congressional Add: Progressive Research for Sustainable Manufacturing	1.194	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	**PROJECT** 8: *Other Congressional Adds (OCAs)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
FY 2010 Accomplishments: This project is aimed at developing a streamlined, unified approach for sustainable manufactured products and processes for the DOD supply chain. This effort will focus on surveying regulation issues that impact small and medium enterprises doing business with DOD. The PRISM team will seek input from manufacturers to identify concerns, as well as gather their input for possible solutions and develop a case study that will aid small or medium enterprises in accelerating adoption of sustainable manufacturing principles.		
Congressional Add: Reduced Cost Supply Readiness ***FY 2010 Accomplishments:*** The objective of this program is to apply automated Logistics Decision Support Tool technology to identify and resolve root causes of persistent readiness problems. The project will 1) adapt and refine commercial Logistics Decision Support Tool to assist DLA finance, supplier, and customer operations, 2) focus on low-density land, maritime, and aviation weapon systems, implementing long-term DLA and DOD solutions as appropriate, and 3) involve DLA, customers, and service engineering authorities.	1.193	-
Congressional Add: Vehicle Fuel Cell and Hydrogen Logistics Program ***FY 2010 Accomplishments:*** The objective of this program is to conduct Basic/applied Research and Development (R&D) and/or pilot programs in support of the Vehicle Fuel Cell and Hydrogen Logistics Program (VHP) - advance hydrogen fuel cells, hydrogen fuel infrastructure and vehicle integration Technology Readiness Levels (TRLs) and Manufacturing Readiness Levels (MRLs).	6.367	-
Congressional Add: Woody Biomass Conversion for JP-8 Fuel ***FY 2010 Accomplishments:*** The objective of the program is to develop methods of converting woody biomass to liquid fuels and chemicals using the Fischer-Tropsch process. Results are expected produce a clean domestic source of fuel that may reduce the need for petroleum fuels and expand biomass feedstocks available for alternative fuels.	1.273	-
Congressional Add: Radio Frequency Identification Technologies ***FY 2010 Accomplishments:*** The objective of this program is to improve distribution operations through the use of advanced Radio Frequency Identification-based Automated Identification Technology (AIT). The program will 1) develop analytical and simulation models for distribution operations to evaluate where the insertion of advanced technology can enhance operations, 2) conduct feasibility studies and identify the advantages and shortcomings of the technologies in multiple applications, and 3) implement advanced technology projects at DLA distribution operations locations. Results are expected to include improved inventory accuracy and readiness.	0.995	-
Congressional Add: Cellulosic-Derived Biofuels Research	2.387	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	**PROJECT** 8: *Other Congressional Adds (OCAs)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
FY 2010 Accomplishments: The objective of this program is to demonstrate that cellulosic-derived biodiesel and JP-8 are viable for large scale production. The program will 1) conduct biomass surveys to identify sufficient suitable crops and available croplands for a commercial scale biofuel facility and 2) determine the optimal recipe of cellulosic material for the production of biodiesel and ultimately bio jet fuel using non-food cellulosic materials in a process that will utilize algae to convert the biomass into oils. Results may produce a clean domestic source of fuel that could minimize the need for petroleum fuels in the next decade.		
Congressional Add: California Enhanced Defense Small Manufacturing Suppliers Program ***FY 2010 Accomplishments:*** Insert Text here	1.600	-
Congressional Adds Subtotals	34.507	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	PROJECT 9: *Applied Research Initiative*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9: *Applied Research Initiative*	-	-	0.498	-	0.498	0.497	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The mission of the ARIA program is to improve the use of Automated Identification Technology (AIT) in logistics operations to better support the warfighter by reducing cost and improving service by:
- Identifying ways to apply technology to improve performance throughout the DLA Supply Chain.
- Developing better processes and applications of technology.
- Evaluating effectiveness of new projects for reducing cost, increasing logistics capabilities, and meeting customer needs.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Applied Research Initiative	-	-	0.498
FY 2012 Plans: Support for the ARIA program will enable depots to continue to provide increasingly efficient service to their customers, and ultimately, the Warfighter. Passive Radio Frequency Identification (pRFID) technology makes it possible for DLA to more easily track both inbound and outbound shipments. It also make is possible to identify bottlenecks that have an adverse impact on the supply chain. Under the CoE projects, the ARIA program will improve the automation (e.g. the routing of pRFID-enabled material on a conveyor system to receiving stations dedicated to expedient processing) at depots. The resulting improvements in speed within depots will make stowed materiel available faster for fulfilling orders, including those in the AOR. In short, the programs will make materiel available for delivery that otherwise might not be visible. The other ARIA projects will result in similar improvements in their respective areas by automating more tasks, and thereby reducing the opportunity for errors which will impact inventory counts, delivery accuracy, and ultimately the ordering processes themselves.			
Accomplishments/Planned Programs Subtotals	-	-	0.498

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603712S: *Logistics Research and Development Technology (Log R&D)*	**PROJECT** 9: *Applied Research Initiative*

E. Performance Metrics

N/A

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*				R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	29.076	29.109	41.976	-	41.976	30.342	30.440	30.747	31.559	Continuing	Continuing
1: *Capabilities Based Logistics*	3.244	4.616	5.822	-	5.822	6.469	2.848	7.360	8.576	Continuing	Continuing
2: *Deployment and Distribution Velocity Management*	7.551	3.599	2.320	-	2.320	4.150	5.100	4.283	4.511	Continuing	Continuing
3: *Cross Domain Intuitive Planning*	1.971	1.106	6.850	-	6.850	5.550	1.540	1.399	1.496	Continuing	Continuing
4: *End-to-End Visibility*	4.757	1.654	0.700	-	0.700	0.500	1.304	1.153	0.986	Continuing	Continuing
5: *Distribution Planning and Forecasting*	1.000	4.400	10.614	-	10.614	5.998	8.998	5.865	6.320	Continuing	Continuing
6: *Joint Transportation Interface*	8.743	8.022	5.775	-	5.775	3.250	6.670	5.981	5.300	Continuing	Continuing
7: *Distribution Protection/Safety/ Security*	1.810	5.712	9.895	-	9.895	4.425	3.980	4.706	4.370	Continuing	Continuing

A. Mission Description and Budget Item Justification

Overseas Contingency Operations (OCO) lessons learned and daily operations indicate that current distribution and logistics processes remain outdated and are rarely capable of providing required warfighter support in an agile, efficient and economical manner. Designation of United States Transportation Command (USTRANSCOM) as the Distribution Process Owner (DPO) and shift within the Department to transform the distribution and logistics processes, demands the examination and improvement of the entire supply chain. Unpredictable and extended global distribution routes, limited visibility of sustainment requirements, force packaging limitations, lift constraints, complex supply chains, as well as non-networked battlefield command and control (C2), planning, and decision support tools impede timely warfighter logistical support. The centralization of distribution and logistics intermodal research and development facilitates the development/fielding of transformational enhancements to validated distribution capability gaps. The USTRANSCOM Research, Development, Test, & Evaluation (RDT&E) program explores and matures promising technologies to enhance support to combatant commanders and other customers of Department of Defense's (DoD's) distribution and transportation systems.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	29.356	29.109	29.024	-	29.024
Current President's Budget	29.076	29.109	41.976	-	41.976
Total Adjustments	-0.280	-	12.952	-	12.952
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.044	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.083	-			
• FY 2010 Congressional General Reductions	-0.153	-	-	-	-
• FY 2012 Departmental Fiscal Guidance	-	-	-0.070	-	-0.070
• FY 2012 Defense Efficiency - Service Support Contractors Reduction	-	-	-0.078	-	-0.078
• FY 2012 Enhancement for USTRANSCOM	-	-	11.000	-	11.000
• FY 2012 Enhancement Joint Command and Control Adaptive Planinng	-	-	2.100	-	2.100

Change Summary Explanation

FY 2010 Congressional General Reductions: $ .153M

FY 2010 SBIR Transfer: $ .083

FY 2010 Congressional Rescissions (Withhold): $ .044M

FY 2012 Congressional Fiscal Guidance: $ .070M

FY 2012 Defense Efficiency - Service Support Contractors Reduction: S .078M

FY 2012 Enhancement for USTRANSCOM: $11.000M

FY 2012 Enhancement Joint Command and Control Adaptive Planinng: $2.100

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 1: *Capabilities Based Logistics*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Capabilities Based Logistics*	3.244	4.616	5.822	-	5.822	6.469	2.848	7.360	8.576	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Department requires procedures and technologies which provide enterprise-level capabilities critical to the distribution system to improve performance of the end-to-end DoD supply chain in direct support of the full range of military operations. Ability to rapidly respond to customers' changing demands, with a reliably high level of service. These needs include: capabilities which enhance any supply or transportation mission (aeromedical, air refueling, joint logistics over-the-shore, and seabasing); analysis, tailoring and implementation of selected best enterprise-level practices from industry; and tools/procedures to optimize transportation plus supply (distribution) plans and schedules in support of an entire operation. This project addresses the required mission support to combatant commanders and other customers in the area of capability-based logistics.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Capabilities Based Logistics Accomplishments/Plans	3.244	4.616	5.822
FY 2010 Accomplishments: Funded/supported ORTA efforts. Completed collaboration effort with ONR/OPNAV to develop ability to conduct at sea transfer of fully loaded containers within the seabase. Support AT21 Cooperative Research and Development Agreement (CRADA) efforts.			
FY 2011 Plans: Continue to fund/support ORTA efforts. Begin development of capability to link together dissimilar types of service ship-to-shore causeways. Support AT21 Cooperative Research and Development Agreement (CRADA) efforts. Commence incremental development of a collaboration with other research labs and academia to focus on augmentation of human intelligence with advanced computer capabilities.			
FY 2012 Plans: Continue to develop ship-to-shore causeways linkage system to support deployment/sustainment of the warfighter in austere locations and joint logistics over the shore. Begin development of capability to off load commercial roll-on/roll-off vessels onto military causeways. Continue to fund/support ORTA efforts. Support AT21 Cooperative Research and Development Agreement (CRADA) efforts. Continue the incremental collaboration with other research labs and academia to focus on augmentation of human intelligence with advanced computer capabilities.			
Accomplishments/Planned Programs Subtotals	3.244	4.616	5.822

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	**PROJECT** 1: *Capabilities Based Logistics*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Critical enterprise-level distribution system capabilities to improve DoD supply chain performance. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 2: *Deployment and Distribution Velocity Management*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2: *Deployment and Distribution Velocity Management*	7.551	3.599	2.320	-	2.320	4.150	5.100	4.283	4.511	Continuing	Continuing

A. Mission Description and Budget Item Justification

DoD requires procedures/technologies targeted at optimizing throughput at the nodes and through the conduits of the deployment and distribution supply chains, from origin to point of use and return to include: inventory management enhancers (includes node cargo management/tracking); materiel handling innovations (including methods of reducing handling); improved physical access to nodes (includes aircraft all-weather visual systems); port throughput enhancements (includes in-port time reduction methods); and innovative delivery methods (for example, precision airlift, autonomous re-supply). This project addresses required mission support to combatant commanders and other customers of DoD's distribution and transportation systems in the area of deployment/distribution velocity management.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Deployment and Distribution Velocity Management Accomplishments/Plans	7.551	3.599	2.320
FY 2010 Accomplishments: Completed air-skid development/assessment to move cargo/vehicles without use of vehicles with drivers or material handling equipment while at sea. Continued development/assessment of a common joint cargo handling system (JRaDS) that meets or exceeds the requirements for multiple joint operational concepts. Continued development of unique identification number for commodities in supply chain.			
FY 2011 Plans: Conduct user evaluation and commence transition activities associated with a common joint cargo handling system (JRaDS) that meets or exceeds the requirements for multiple joint operational concepts. Commence JCTD to demonstrate the military application of a commercially available Transportation Management System (TMS) to meet shortfalls in the theater distribution process. Complete development of unique identification number for commodities in supply chain.			
FY 2012 Plans: Complete JRaDS development effort and transition capability. Continue demonstration of the military application of a commercial TMS. Commence development of a domain-independent autonomous agent that integrates planning, monitoring, explanation, and goals to pursue response to unexpected events.			
Accomplishments/Planned Programs Subtotals	7.551	3.599	2.320

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 2: *Deployment and Distribution Velocity Management*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 0603264S: *Agile Transportation for the 21st Century (AT21) Increment 3 Theater Capability Movement Requirement Visibility-Theater (MRV-T) Joint Capability Technology Demonstration (JCTD)*		0.750	1.000		1.000					Continuing	Continuing
• 0603648D8Z: *OSD (RFD) Movement Requirement Visibility-Theater (MRV-T) Joint Capability Technology Demonstration (JCTD)*		2.332	2.250		2.250					Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

Increase force projection and sustainment velocity. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 3: *Cross Domain Intuitive Planning*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3: *Cross Domain Intuitive Planning*	1.971	1.106	6.850	-	6.850	5.550	1.540	1.399	1.496	Continuing	Continuing

A. Mission Description and Budget Item Justification

Procedures/technologies which improve decision-making and collaboration within the supply chain, from the planning stage to real-time execution and retrograde operations, without need for highly specialized operators of the tools. Projects in this area address following areas: decision support tools for any echelon of the supply chain or decision-maker, distribution process simulations and models for analysis and training, distribution demand forecasting/execution monitoring tools, on-line training, automated decision-maker support (e.g., queuing, alerting, recommended courses of action), automated status monitoring with information fusion and drilldown capability, and resilient C2 infrastructure capabilities. This project will provide required mission support to combatant commanders and other distribution/ transportation customers in the area of collaborative planning/execution/information sharing/decision support tools.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Cross Domain Intuitive Planning Accomplishments/Plans	1.971	1.106	6.850
FY 2010 Accomplishments: Continued efforts to enhance DDOC operations through work flow engineering. Continued collaborative effort with USMC to link tactical maintenance status/report to strategic systems.			
FY 2011 Plans: Continue efforts to enhance Fusion Center Operations through work flow engineering. Complete development/assessment to link USMC tactical maintenance status/report information to strategic systems. Begin to develop capability to predict maintenance and logistics issues/demand forecasting to optimize supply chain. Start creating the capability for cyber surveillance and control of networks across multiple domains of the SIPR and NIPR networks (Computer Adaptive Network Defense in Depth (CANDID) JCTD). Commence efforts to translate commercial gaming into militarily useful capabilities.			
FY 2012 Plans: Complete development of capability to predict maintenance and logistics issues/demand forecasting to optimize supply chain. Complete capability for cyber surveillance and control of networks across multiple domains of the SIPR and NIPR networks (CANDID JCTD). Begin to develop a planner's capability to fine-tune the pairing of air movement requirements and resources to maximize aircraft utilization efficiency. Continue efforts to translate commercial gaming into militarily useful capabilities.			
Accomplishments/Planned Programs Subtotals	1.971	1.106	6.850

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	**PROJECT** 3: *Cross Domain Intuitive Planning*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• Fleet COMPACFLT : *Computer Adaptive Network Defense In-Depth (CANDID) JCTD*		2.330	0.500		0.500					Continuing	Continuing
• OSD(RFD) : *Computer Adaptive Network Defense In-Depth (CANDID) JCTD*		6.230	3.770		3.770					Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

Improve decision-making and collaboration within the supply chain and focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 4: *End-to-End Visibility*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4: *End-to-End Visibility*	4.757	1.654	0.700	-	0.700	0.500	1.304	1.153	0.986	Continuing	Continuing

A. Mission Description and Budget Item Justification

Warfighters need end-to-end visibility of all aspects of the projection and sustainment to enable operations. This requires investigation into next generation Automated Information Technology (AIT)/Total Asset Visibility (TAV) technologies and/or container security to improve end-to-end distribution visibility and enhance planning/ execution and transform sustainment operations. Includes the ability to determine immediate, reliable, and accurate shipment status through system access or event management. Develop an over-arching process and system architecture which will automate and integrate existing and innovative new programs across the supply chain to provide complete In Transit Visibility (ITV) data.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: End-to-End Visibility Accomplishments/Plans	4.757	1.654	0.700
FY 2010 Accomplishments: Continued next generation Portable Deployment Kit (PDK) effort designed to provide end-to-end visibility in austere/mobile environments. Continued development with Army/Logistics Info Agency of a mobile AIT capability in a military environment in all environments. Continue testing of advanced AIT devices for military utility.			
FY 2011 Plans: Complete next generation Portable Deployment Kit (PDK) effort designed to provide end-to-end visibility in austere/mobile environments. Complete development with Army/Logistics Info Agency of a mobile AIT capability in a military environment in all environments. Complete testing of advanced AIT devices for military utility. Begin effort to gain visibility over non-DoD stock during humanitarian assistants operations. Start effort to provide capability to read RFID tags from standoff distances thus increasing theater visibility coverage without increasing infrastructure.			
FY 2012 Plans: Continue effort to provide capability to read RFID tags from standoff distances thus increasing theater visibility coverage without increasing infrastructure.			
Accomplishments/Planned Programs Subtotals	4.757	1.654	0.700

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	**PROJECT** 4: *End-to-End Visibility*

E. Performance Metrics

Provide end-to-end visibility of all aspects of the projection and sustainment of forces and equipment. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 5: *Distribution Planning and Forecasting*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
5: *Distribution Planning and Forecasting*	1.000	4.400	10.614	-	10.614	5.998	8.998	5.865	6.320	Continuing	Continuing

A. Mission Description and Budget Item Justification

There is a lack of collaborative distribution planning, based on an understanding of aggregated customer requirements, for optimizing the end-to-end distribution process. Planning, forecasting and collaboration are insufficiently advanced to fully synchronize people, processes and assets to execute planned operations. Automated tools should be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems. Project investigates the need for flexible end-to-end enhanced modeling and simulation and collaborative decision support tools.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Distribution Planning and Forecasting Accomplishments/Plans	1.000	4.400	10.614
FY 2010 Accomplishments: Completed SLPC-CIW transition efforts. Continued M&S innovation with AFIT. Continued M&S innovation with AFIT.			
FY 2011 Plans: Commence process to determine parts failure/usage patterns and mission type/environment to initiate sustainment support actions. Commence effort to build a highly configurable, agile Distribution Process Nodal Model capable of expressing and analyzing complex and detailed distribution processes at nodes. Commence integration of projection and sustainment planning and decision support tools into a federate suite. Continued M&S innovation with AFIT. Commence leveraging existing collaboration & situational awareness technologies to provide dynamic planning and course of action development/execution capabilities.			
FY 2012 Plans: Continue integration of projection and sustainment planning and decision support tools into a federate suite. Continue effort to build a highly configurable, agile Distribution Process Nodal Model capable of expressing and analyzing complex and detailed distribution processes at nodes. Commence process to determine parts failure/usage patterns and mission type/environment to initiate sustainment support actions. Continued M&S innovation with AFIT. Continue to leverage existing collaboration & situational awareness technologies to provide dynamic planning and course of action development/execution capabilities. Commence JFAST modernization to provide full-spectrum transportation adaptive planning and analysis in a collaborative, web-accessible, service oriented environment.			
Accomplishments/Planned Programs Subtotals	1.000	4.400	10.614

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	**PROJECT** 5: *Distribution Planning and Forecasting*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Planning based on an understanding of customer requirements for optimizing the distribution process. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 6: *Joint Transportation Interface*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
6: *Joint Transportation Interface*	8.743	8.022	5.775	-	5.775	3.250	6.670	5.981	5.300	Continuing	Continuing

A. Mission Description and Budget Item Justification

Synchronizing strategic/theater delivery capabilities to meet increasingly dynamic customer needs. Transportation information exchange across the DoD is inhibited by the disparity of systems, differing data standards, and insufficient interfaces. Queries and retrieval of status and shipment information cannot be executed due to lack of connectivity between the various components of the supply chain. The ability to maintain situational awareness of movements at macro/micro (drill down) levels, with associated force and sustainment cargo on board; to track force packages progress, and rapidly determine the impact of any delays or changes to sailing progress and arrival at port of debarkation; and to conduct "what -if" impact assessment of possible changes to delivery asset's course, speed or departure/arrival information as it relates to force or force package delivery/impact of any change on the closure of force packages in theater is required. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Also need to explore the many barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DoD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Joint Transportation Interface Accomplishments/Plans	8.743	8.022	5.775
FY 2010 Accomplishments: Completed Common Operational Picture for Deployment and Distribution COP(D2) and continued Coalition Mobility System (CMS) JCTD efforts. Continued multi-year development of an automated data quality analysis capability linked to the Enterprise Data Warehouse (EDW) that will enable end-to-end analysis of data quality and system performance. Continue development of cognitive-based visualization, alerting and optimization engine effort. Begin effort to investigate/demonstrate semantic solutions in support of the Corporate Governance Processes (CGP). Completed development/evaluation of cross domain suite of tools for joint warfighter with text chat language, translation, whiteboard, audio and XML guard functionality ((CDCIE) JCTD) and commence transition activities.			
FY 2011 Plans: Complete Coalition Mobility System (CMS) JCTD transition efforts. Complete multi-year development of an automated data quality analysis capability linked to the Enterprise Data Warehouse (EDW) that will enable end-to-end analysis of data quality and system performance. Complete development/commence assessment of cognitive-based visualization, alerting and optimization engine effort. Continue demonstration of semantic solutions for CGP. Commenced transition of cross domain suite of tools for joint warfighter with text chat language, translation, whiteboard, audio and XML guard functionality and commence transition activities. Commence development of tool that will increase Aerial Refueling asset and aircrew usage efficiency by increasing visibility of requirements, allocations, and asset and aircrew disposition enabling more optimal and synchronized management. Develop data			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 6: *Joint Transportation Interface*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
quality and standardization for decision support utilizing semantic technology. Develop cyber security methods. Commence efforts to translate social networking and crowd sourcing technologies into militarily useful capabilities. ***FY 2012 Plans:*** Complete development of tool that will increase Aerial Refueling asset and aircrew usage efficiency by increasing visibility of requirements, allocations, assets, and aircrew disposition enabling more optimal and synchronized management. Complete semantic technology solution. Develop data quality and standardization for decision support utilizing semantic technology. Continue efforts to translate social networking and crowd sourcing technologies into militarily useful capabilities.			
Accomplishments/Planned Programs Subtotals	8.743	8.022	5.775

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Synchronizing, through information exchange, strategic/theater delivery capabilities to meet warfighter needs. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	PROJECT 7: *Distribution Protection/Safety/Security*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
7: *Distribution Protection/Safety/ Security*	1.810	5.712	9.895	-	9.895	4.425	3.980	4.706	4.370	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Theater Commander has not always been able to provide the appropriate security in a timely manner during deployment. In some cases there are insufficient security assets to oversee convoy security in-country; therefore, all movement requirements are competing for the same limited resources. Additionally need to explore new, portable methods of detecting hazardous/asymmetric materials in very small quantities to support safe logistics operations. Also explore technologies to enhance the capability to deliver personnel/materiel to anti-access/austere airfields and seaports.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Distribution Protection/Safety/Security Accomplishments/Plans	1.810	5.712	9.895
FY 2010 Accomplishments: Continue development of improved guidance/navigation/control systems and various delivery methods to improve the delivery accuracy of airdropped supplies and support incremental transition of successful technologies. Pursue technologies to protect networks from cyber intrusion/attack. Commenced investigation of the development of hybrid technologies in support of logistics. Investigated the effects of various chemical and biological agents on various materials used in different platforms.			
FY 2011 Plans: Continue to develop/mature technologies to improve the accuracy and the methods of airdropped supplies and incrementally field military useful technologies. Continue to develop manned/unmanned systems for point of need delivery. Commence joint precision airdrop from helicopter sling-load effort. Partner to develop manned and unmanned technologies that delivery cargo/ logistics/sustainment to the point of need (Autonomous Technologies for Unmanned Air Systems (ACOS) JCTD and High Speed Container Delivery System (HSCDS) JCTD). Commence effort to decontaminate aircraft exposed to chemical warfare agents. Commence anti-piracy automated information system to increase visibility/tracking of vessels as sea. Continued investigation of the development of hybrid technologies in support of logistics.			
FY 2012 Plans: Complete joint precision airdrop from helicopter sling-load. Continue improving the accuracy and methods of joint precision airdrop. Continue to develop manned/unmanned systems for point of need delivery. Complete effort to decontaminate exposed to chemical warfare agents. Field HSCDS JCTD capabilities. Develop a low cost, one time use airdrop system that will provide assistance in the form of food and water directly to populated areas within initial days of a humanitarian disaster. Commence effort to investigate effects of chemical agents on aircraft materials and structures.			
Accomplishments/Planned Programs Subtotals	1.810	5.712	9.895

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603713S: *Deployment and Distribution Enterprise Technology (USTRANSCOM)*	**PROJECT** 7: *Distribution Protection/Safety/Security*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 6300343613: *US Army-AATD Autonomous Technologies for Unmanned Air Systems (ATUAS) JCTD*		1.772	2.747		2.747					Continuing	Continuing
• OSD(RFD) ATUAS: *Autonomous Technologies for Unmanned Air Systems (ATUAS) JCTD*		5.000	5.000		5.000					Continuing	Continuing
• OSD(RFD) HSCDS: *High Speed Container Delivery System (HSCDS) JCTD*		2.230	1.800		1.800					Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

Providing the appropriate security in a timely manner during deployment and distribution operations. Plus focus on research and development to address warfighting requirements.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*				R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	70.558	26.878	91.132	-	91.132	81.651	82.750	83.779	80.278	Continuing	Continuing
1: *Technology Development*	26.271	26.878	26.593	-	26.593	26.832	27.425	28.026	28.499	Continuing	Continuing
2: *90nm Next Generation Foundry*	-	-	30.000	-	30.000	20.000	20.000	20.000	15.000	Continuing	Continuing
3: *Trusted Foundry*	-	-	34.539	-	34.539	34.819	35.325	35.753	36.779	Continuing	Continuing
4: *Other Congressional Adds (OCAs)*	44.287	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Microelectronics Activity (DMEA) provides a vital service as the joint Department of Defense (DoD) Center for microelectronics acquisition, adaptive operations and support - advancing future microelectronics research, development, technologies and applications to achieve the Department's strategic and national security objectives. An important part of the DMEA mission is to research current and emerging microelectronics issues with a focus on warfighters' needs. To this end, DMEA is integrally involved in the development of capabilities and resultant products based on technologies whose feasibility has been demonstrated but which have yet to be applied to real-world and military applications.

DMEA resolves microelectronics technology issues in weapon systems by quickly developing and executing appropriate solutions to not only keep a system operational but elevate it to the next level of sophistication or to meet new threats. DMEA provides critical microelectronics design and fabrication skills to ensure that the DoD is provided with systems capable of ensuring technological superiority over potential adversaries. DMEA provides critical, quick turn solutions for DoD, intelligence, special operations, cyber and combat missions as well as microelectronic parts that are unobtainable in the commercial market. DMEA's knowledge of varying military requirements across a broad and diverse range of combatant environments and missions—along with its unique technical perspective—allows it to develop, manage and implement novel microelectronic solutions to enhance mission capability. DMEA can then utilize these cutting-edge technology capabilities and products in the solutions it develops for its military clientele. After many years of performing analogous efforts, the technical experience, mission knowledge, and practical judgment that are gained from preceding efforts are often incorporated into subsequent technology maturation projects.

Microelectronics technology is clearly a vital and essential technology for all operations within the DoD. Yet, as critical as this technology is to DoD operations, the defense microelectronics market share is now less than 0.1% because the use of microelectronics has exploded in the commercial world. This commercial pressure is driving the semiconductor industry to supersede successive generations of microelectronics technologies with new technologies every 18 months or sooner. Due to intense business pressures, the semiconductor industry does not respond to the DoD's particular needs of ultra-low volumes, extended availability timeframes, or substantial security concerns. This has caused many commercial semiconductor facilities to close their doors or move off-shore to unsecure locations. Such intense commercial pressures make it impossible to assure that the current DoD suppliers will be available to satisfy the future DoD requirements. Therefore, DMEA has established a unique-in-the-world flexible integrated circuit manufacturing capability that provides microelectronics design, development, and manufacturing support on demand. DMEA produces limited quantities of components to meet the DoD's unique weapon system needs for a trusted, assured, and secure supply of

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*

microelectronics. This unique capability is essential to all major weapon systems, combat operations, and support needs. As such, DMEA serves the DoD, other US Agencies, industry and Allied nations.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	26.271	26.878	27.400	-	27.400
Current President's Budget	70.558	26.878	91.132	-	91.132
Total Adjustments	44.287	-	63.732	-	63.732
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY 2010 Congressional Adds	44.287	-	-	-	-
• FY 2012 Departmental Fiscal Guidance	-	-	-0.024	-	-0.024
• FY2012 Defense Efficiency - Civilian Pay Raise Reduction	-	-	-0.757	-	-0.757
• FY2012 Defense Efficiency - Service Support Contractors Reduction	-	-	-0.026	-	-0.026
• FY 2012 Enhancements 90nm Next Generation Foundry Program	-	-	30.000	-	30.000
• FY 2012 Enhancements Trusted Foundry Program	-	-	34.539	-	34.539

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Project: 4: *Other Congressional Adds (OCAs)*		
Congressional Add: *3-D Electronics and Power*	4.775	-
Congressional Add: *AESA Technology Insertion Program*	2.387	-
Congressional Add: *Carbon Nanotube Thin Film Near Infrared Detector*	1.592	-
Congressional Add: *Electronics and Materials for Flexible Sensors and Transponders (EMFST)*	4.775	-
Congressional Add: *End to End Semi Fab Alpha Tool*	1.592	-
Congressional Add: *Feature Size Migration at DMEA Advanced Reconfigurable Manufacturing of Semiconductors (ARMS) Foundry*	2.387	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Congressional Add: *Heterogeneous Gallium Nitride/Silicon Microcircuit Technology*	1.592	-
Congressional Add: *High Performance Tunable Materials*	3.581	-
Congressional Add: *Semiconductor Photomask Technology Infrastructure Initiative*	1.592	-
Congressional Add: *Shipping Container Security System Field Evaluation*	3.581	-
Congressional Add: *Smart Bomb Millimeter Wave Radar Guidance System*	2.308	-
Congressional Add: *Spintronics Memory Storage Technology*	2.785	-
Congressional Add: *Superconducting Quantum Information Technology*	0.796	-
Congressional Add: *Tunable Micro Radio for Military Systems*	5.570	-
Congressional Add: *Vehicle and Dismount Exploitation Radar (VADER)*	3.979	-
Congressional Add: *X-Band/W-Band Solid State Power Amplifier*	0.995	-
Congressional Add Subtotals for Project: 4	44.287	-
Congressional Add Totals for all Projects	44.287	-

Change Summary Explanation

FY 2010 Congressional Adds: $44.287M

FY 2012 Departmental Fiscal Guidance Reduction: $ .024M

FY2012 Defense Efficiency - Civilian Pay Raise Reduction: $ .757M

FY2012 Defense Efficiency - Service Support Contractors Reduction: $ .026M

FY 2012 Enhancements 90nm Next Generation Foundry Program: 30.000M

FY 2012 Enhancements Trusted Foundry Program: 34.539M

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	**R-1 ITEM NOMENCLATURE** PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*

The increase to the FY 2012-2016 Research, Development, Test and Evaluation (RDT&E) budget for PE0603720S is due to the 90nm Next Generation Foundry program, a newly-approved Program issue, as well as the Trusted Foundry program transfer of OSD PE 0605140D8Z.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 1: *Technology Development*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Technology Development*	26.271	26.878	26.593	-	26.593	26.832	27.425	28.026	28.499	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Microelectronics Technology Development and Support funds are necessary to design, develop, and demonstrate microelectronics concepts, technologies and applications to extend the life of weapon systems and solve operational problems (e.g., reliability, maintainability, performance, and assured supply). This includes researching current and emerging microelectronics issues with a focus on warfighters' needs and providing for the development and long-term support structure necessary to ensure rapid prototyping, insertion, and support of microelectronics technologies into fielded systems, particularly as the technologies advance. DMEA maintains critical microelectronics design and fabrication skills to ensure that the DoD is provided with systems capable of ensuring technological superiority over potential adversaries. These funds provide an in-house technical staff of skilled and experienced microelectronics personnel working in state-of-the-practice facilities providing technical and application engineering support for the implementation of advanced microelectronics research technologies from reverse engineering through design, fabrication, test, assembly, integration and installation. DMEA provides an in-house capability to support these strategically important microelectronics technologies within the DoD with distinctive resources to meet DoD's requirements across the entire spectrum of technology development, acquisition, and long-term support. This includes producing components to meet the DoD's ultra-low volume, extended availability timeframe, needs for a trusted, assured, and secure supply of microelectronics. DMEA's capabilities make it a key resource in the intelligent and rapid application of advanced technologies to add needed performance enhancements in response to the newest asymmetric threats and to modernize aging weapon systems.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Technology Development Accomplishments/Plans	26.271	26.878	26.593
FY 2010 Accomplishments: DMEA designed, developed, and demonstrated microelectronics concepts, advanced technologies, and applications to solve operational problems. DMEA applied advanced technologies to add performance enhancements in response to the newest asymmetric threats and to modernize aging weapon systems. DMEA accredited trusted sources and the Advanced Reconfigurable Manufacturing of Semiconductors (ARMS) foundry provided a contingency means to ensure DoD can acquire critical trusted integrated circuits in a variety of process technologies and geometry node-sizes.			
FY 2011 Plans: DMEA will continue to design, develop, and demonstrate microelectronics concepts, advanced technologies, and applications to solve operational problems. DMEA will apply advanced technologies to add performance enhancements in response to the newest asymmetric threats and to modernize aging weapon systems. DMEA will accredit trusted sources and the ARMS foundry will provide a contingency means to ensure DoD can acquire critical trusted integrated circuits in a variety of process technologies and geometry node-sizes.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 1: *Technology Development*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
DMEA will continue to design, develop, and demonstrate microelectronics concepts, advanced technologies, and applications to solve operational problems. DMEA will apply advanced technologies to add performance enhancements in response to the newest asymmetric threats and to modernize aging weapon systems.			
Accomplishments/Planned Programs Subtotals	26.271	26.878	26.593

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 2: *90nm Next Generation Foundry*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2: *90nm Next Generation Foundry*	-	-	30.000	-	30.000	20.000	20.000	20.000	15.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Department of Defense (DoD) requires an upgrade to support 90nm semiconductor technology at the low-volume production-capable foundry at the Defense Microelectronics Activity (DMEA). This is a critical, time-sensitive requirement to support the DoD's strategy to provide an assured (always available) and trusted source of semiconductors (microelectronic devices) for critical weapon systems, sensors, and specialized electronic equipment. This upgrade will enhance DMEA's ability to provide one-of-a-kind advanced reconfigurable manufacturing for semiconductors to meet the time-sensitive, trusted, and low-volume operational needs of DOD, Special Ops, Cyber, Intelligence, and the Rad-Hard communities. The 90nm foundry at DMEA will be the only assured supply in the world to satisfy a multitude of critical DOD and US Government program issues for the foreseeable future.

The risk of DOD not having an assured supply of 90nm technology semiconductors is increasing because there is an accelerating migration of existing domestic foundries and new foundry investments toward unsecure geographic locations due to cheap labor and favorable tax and equipment depreciation laws. The DOD must eliminate the risks inherent in producing critical DOD components in unsecure locations utilizing foreign personnel. Most domestic semiconductor foundries, other than the very largest, will not recapitalize to 90nm thereby making this technology even more difficult for the DOD to obtain in the future. The 90nm DMEA foundry is absolutely necessary to provide assured and secure microelectronics design and fabrication for trusted microelectronics systems and semiconductor components to ensure DOD technological superiority over potential adversaries.

The DMEA Advanced Reconfigurable Manufacturing of Semiconductors (ARMS) foundry can be "flexed" when demand requires fabricating integrated circuit (IC) devices on different manufacturing processes with different feature sizes and technologies. The business model for DMEA's foundry involves the acquisition of process intellectual property (IP) (i.e., specific process technology recipes) of multiple commercial processes to host in the ARMS foundry at much reduced cost in both dollars and time from that of inventing or re-developing such recipes. The ARMS foundry's unique on-demand flexibility satisfies the DMEA mission to provide microelectronics solutions and results in "just enough, just in time" support for the low volume requirements of DoD program managers. The current DMEA ARMS foundry will accommodate technology process geometries down to 180nm (i.e., 0.18 microns). Due to physical limitations in the current DMEA lithography and fabrication equipment, the 90nm state-of-the-practice processes that need to be incorporated in the ARMS foundry require a "step function" upgrade in equipment and facilities to handle the smaller geometry feature sizes and much larger wafer starting material. Therefore, DMEA must upgrade the DMEA ARMS foundry capability to produce the next necessary generations of semiconductor process technologies down to feature sizes of 90nm. This Project will fund expenses associated with planning and implementing the 90nm facility. Initial costs will include design and trade studies, costs associated with implementing force protection standards, floor plan layout and planning activities. Further, it will fund the outfitting of the selected property with the required force protection standards, infrastructure, tenant improvements, furniture, and equipment.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: DMEA 90nm Next Generation Foundry	-	-	30.000

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 2: *90nm Next Generation Foundry*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: DMEA 90nm Next Generation Foundry was not yet approved in FY 2010. ***FY 2011 Plans:*** DMEA 90nm Next Generation Foundry POM issue was not yet approved in FY 2011. As part of the FY 2012 - FY 2016 POM, DMEA has started efforts to secure a 90nm Next Generation Foundry facility through the General Services Administration (GSA). ***FY 2012 Plans:*** DMEA will complete the 90nm Next Generation Foundry facility acquisition, acquire much of the equipment necessary for initial operation, and begin installation of the acquired equipment.			
Accomplishments/Planned Programs Subtotals	-	-	30.000

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 3: *Trusted Foundry*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3: *Trusted Foundry*	-	-	34.539	-	34.539	34.819	35.325	35.753	36.779	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Department of Defense (DoD) and National Security Agency (NSA) require uninterruptible access to state-of-the-art design and manufacturing processes to produce custom integrated circuits designed specifically for military purposes. Under DODI 5200.39, Application Specific Integrated Circuits (ASICs) in critical/essential systems need to be procured from trusted sources in order to avoid counterfeit, tampered, or sabotaged parts. Worldwide competition from foreign, state-subsidized manufacturing facilities (foundries) is making fabless semiconductor companies the norm in the U.S. Sophisticated off-shore design and manufacturing facilities with economic incentives of state subsidies and engineering labor rates vastly less than engineering rates in the U.S. have resulted in outsourcing of electronics components and integrated circuits. These trends threaten the integrity and worldwide leadership of the U.S. semiconductor industry by eliminating many domestic on-shore suppliers and reducing access to trusted fabrication sources for advanced technology. These trends are of acute concern to the defense and intelligence community. Secure communications and cryptographic applications depend heavily upon high performance semiconductors where a generation of improvement can translate into a significant force multiplier and capability advantage. Important defense technology investments and demonstrations carry size, weight, power, and performance goals that can only be met through the use of the most sophisticated semiconductors.

The Trusted Foundry program provides DoD and NSA with trusted state-of-the-art microelectronics design and manufacturing capabilities necessary to meet the performance and delivery needs of their customers. The program will also provide the Services with a competitive cadre of trusted suppliers that will meet the needs of their mission critical/essential systems for trusted integrated circuit components. NSA, in their role as the Trusted Access Program Office, has successfully looked to commercial sources to satisfy their requirements. Access to trusted suppliers is imperative to ongoing and future DoD/NSA systems, and most centrally, Trusted Foundry access is absolutely necessary to meet secure communication and cryptographic needs for state-of-the-art semiconductor technologies.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Trusted Foundry	-	-	34.539
FY 2010 Accomplishments: The Trusted Foundry project was not assigned to DMEA in FY 2010. Under OSD PE 0605140D8Z, the program's accomplishments were as follows: Additional integrated circuits were provided to the U.S. Army, U.S. Navy, U.S. Air Force, and DARPA to satisfy new and on-going program requirements. ASIC design efforts were initiated to encompass leading-edge designs in state-of-the-art process technologies for military applications and the trusted design flow was enhanced for defense designers. New circuit cores were converted to trusted format and made available to the customers (programs, contractors, etc.) that use the Trusted Foundry. New equipment paradigms were furthered for low volume but leading-edge processes. New process paradigms at 32/22nm for trusted fabrication technologies were evaluated for implementation. New commercial and non-			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
commercial sources and methodologies for trusted components and services within the complete supply chain were developed and made available to the defense community. The program was funded in FY 2010 at $50.808M. ***FY 2011 Plans:*** The Trusted Foundry project was not assigned to DMEA in FY 2011. Under OSD PE 0605140D8Z, the program's plans are as follows: Establish a cadre of trusted suppliers for the critical trusted components and services needed for appropriate defense systems. Enhance Trusted Foundry products to include key specialty processes requested by DoD programs, such as high voltage, extreme environments, and embedded non-volatile memory. Enhance trusted design activities to encompass new processing capabilities. Establish a line of trusted catalog components that can be purchased by Defense contractors. The program was funded in FY 2011 at $34.512M. ***FY 2012 Plans:*** Begin to develop a capability for the reverse engineering of application-specific integrated circuits (ASICs) and continuously refine the utilized methods for efficiency, accuracy, and applicability to multiple processes. Enhance the cadre of trusted suppliers for the critical trusted components and services needed for appropriate defense systems. Enhance Trusted Foundry products to include key specialty processes requested by DoD programs, such as high voltage, extreme environments, and embedded non-volatile memory. Enhance trusted design activities to encompass new processing capabilities. Establish a line of trusted catalog components that can be purchased by Defense contractors.			
Accomplishments/Planned Programs Subtotals	-	-	34.539

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603720S: *Microelectronics Technology Development and Support (DMEA)*	PROJECT 4: *Other Congressional Adds (OCAs)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4: *Other Congressional Adds (OCAs)*	44.287	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

An important part of the mission of the Defense Microelectronics Activity (DMEA) is to research current and emerging microelectronics issues with a focus on warfighters' needs. To this end, DMEA is integrally involved in the development of capabilities and resultant products based on technologies whose feasibility has been demonstrated but which have yet to be applied to real-world and military applications. DMEA's knowledge of varying military requirements across a broad and diverse range of combatant environments and missions-along with its unique technical perspective-allow it to develop, manage and implement novel microelectronic solutions to enhance mission capability. DMEA can then utilize these cutting-edge technology capabilities and products in the solutions it develops for its military clientele. After many years of performing analogous efforts, the technical experience, mission knowledge, and practical judgment that are gained from preceding efforts are often incorporated into subsequent technology maturation projects. In agreement with this mission, the following Congressionally directed programs are opportunities that have sufficient potential to merit development by DMEA.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: 3-D Electronics and Power ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to UC Riverside. Started on execution of requirements, including technology development in three fundamental problem areas: new materials for electrical interconnects, electromagnetic shielding, and heat removal. ***FY 2011 Plans:*** Continue executing requirements with a planned completion date of 31-Dec-2011.	4.775	-
Congressional Add: AESA Technology Insertion Program ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to Northrop Grumman Electronic Systems. Started work toward adapting Active Electronic Scanned Array (AESA) antenna technology and subsystems developed for airborne fire control systems so that they may be used in Navy tactical surface radars. ***FY 2011 Plans:*** Continue executing requirements with a planned completion date of 31-Mar-2011.	2.387	-
Congressional Add: Carbon Nanotube Thin Film Near Infrared Detector	1.592	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
FY 2010 Accomplishments: Completed the requirements development and issued a SBIR Phase III RFP to Carbon Solutions of Riverside, CA. A proposal has been received and the effort is currently in the fact-finding phase with an award anticipated in January 2011. ***FY 2011 Plans:*** Award the effort and begin to optimize the performance of individual bolometric detectors based on SWNT thin films; fully characterize the parameters of their performance and integrate the optimized individual elements in a prototype of a linear 10-pixel array; and increase the temperature coefficient of resistance (TCR)of single-walled carbon nanotubes (SWNTs) bolometer sensitive element by utilization of pure semiconducting SWNTs, their chemical functionalization and optimized processing in order to improve the responsiveness and detectability of the SWNT bolometric detector and evaluate the limit of the detector performance. The planned completion date is 30-Jun-2012.		
Congressional Add: Electronics and Materials for Flexible Sensors and Transponders (EMFST) ***FY 2010 Accomplishments:*** Completed the requirements development and received a proposal from North Dakota State University. The effort is currently in the fact-finding phase with an award anticipated in January 2011. ***FY 2011 Plans:*** Award the effort and begin to integrate advanced manufacturing technologies that have been investigated in prior program phases and demonstrate an end to end assembly process for flexible sensors; determine how to effectively integrate roll to roll assembly processes; continue development of materials that optimize critical properties, reduce costs, and simplify fabrication of flexible sensors and transponders; optimize selected deposition technologies from various direct-write and conventional-printing options to demonstrate feasibility to scale-up to a production type system; further develop system level implementations of sensor arrays and passive transducer based RFID sensors; demonstrate a functional large area array that can conform to an irregular shape; integrate energy harvesting solutions into sensor systems; and develop sensor technology for health monitoring. The planned completion date is 30-Jun-2012.	4.775	-
Congressional Add: End to End Semi Fab Alpha Tool ***FY 2010 Accomplishments:*** Provided additional funding to finish the design of the Alpha High-Speed Ion Optics (HSIO) and installation of the Alpha HSIO Demonstration Platform equipment. Completed the requirements development for the next phase and received a proposal from Digibeam. The effort is currently in the fact-finding phase with an award anticipated in January 2011. ***FY 2011 Plans:*** Award the effort and begin to upgrade the column electrode assembly to improve bunching performance, integrate and test the improved buncher, provide a preliminary model and design of the beta	1.592	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
HSIO Column, which supports exposure speeds to the low Gpixel/second. The planned completion date is 31-Jan-2012.		
Congressional Add: Feature Size Migration at DMEA Advanced Reconfigurable Manufacturing of Semiconductors (ARMS) Foundry ***FY 2010 Accomplishments:*** DMEA has established a comprehensive growth path for increasing functional density of its existing digital, analog and mixed signal processes. A study was updated to provide a migratory path for the current ARMS foundry to technology nodes less than 0.25um and identify processes and/or toolings for multi-layer interconnect development activities at different technology nodes. This project ensures that ARMS fabrication technology is able to handle the increased functional density of components on microchips that commercial manufacturers are continuing to develop and install in each new product that they produce, and to ensure that the foundry is able to convert from one process to another in a short period of time with a high yield of acceptable microcircuits during the first manufacturing run after process changeover. The ability to switch from one process to another is becoming more important as DMEA acquires an increasing number of processes to support the more complex integrated circuits used in each new weapon system. Various pieces of equipment were acquired to enhance feature size migration in the ARMS Foundry and its associated processes.	2.387	-
Congressional Add: Heterogeneous Gallium Nitride/Silicon Microcircuit Technology ***FY 2010 Accomplishments:*** This project has enhanced DMEA's design and test capabilities in preparation for the design and test of heterogeneous GaN/Si technology microcircuits. GaN-on-silicon is a low-cost alternative to growth on sapphire or SiC. Today epitaxial growth is usually performed on Si(111), which has threefold symmetry. The growth of single crystalline GaN on Si(001), the material of the complementary metal oxide semiconductor (CMOS) industry, is more difficult due to the fourfold symmetry of this Si surface leading to two differently aligned domains. Mastery of this low-cost alternative can benefit the DoD and its need for robust microcircuits that operate in rugged, harsh environments of severe temperature and vibration.	1.592	-
Congressional Add: High Performance Tunable Materials ***FY 2010 Accomplishments:*** Funding is being utilized to further advances made in previous phases at both North Carolina State University (NCSU) and North Dakota State University (NDSU). The NCSU requirements	3.581	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
are still in the process of being defined. The NDSU requirements have been developed, and a proposal is anticipated soon. ***FY 2011 Plans:*** Finish developing the requirements for the NCSU effort, award the efforts and begin to conduct research and develop improved tunable materials using the combinatorial development method. The planned completion dates for the NCSU and NDSU efforts are 31-Mar-2012 and 31-Jan-2012, respectively.		
Congressional Add: Semiconductor Photomask Technology Infrastructure Initiative ***FY 2010 Accomplishments:*** Continued development of commercial tooling, materials and process technology needed to fabricate masks used for manufacturing critical components at a feature sizes of 32nm and below for defense and security systems using leading edge integrated circuits and other components. This effort focused on developing a sustaining source of a trusted domestic mask making capability.	1.592	-
Congressional Add: Shipping Container Security System Field Evaluation ***FY 2010 Accomplishments:*** The requirements are in the process of being defined. A PMR was held on 9-Dec-2010 for the previous phase of this effort that is scheduled to end 30-Apr-2011. Results are good. ***FY 2011 Plans:*** Requirements will be developed in time to award the follow-on SBIR Phase III effort to Nevada Nanotech or Reno, NV before 30-Apr-2011.	3.581	-
Congressional Add: Smart Bomb Millimeter Wave Radar Guidance System ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to Global Technical Systems of Virginia Beach, VA. ***FY 2011 Plans:*** Begin executing requirements, including a spiral design and development effort for the Phase 1 Smart Bomb Microwave RADAR Targeting System to operate on-board a Tiger Shark unmanned aerial vehicle (UAV); and development, integration, test and demonstration of the proof of concept using a manned aircraft. The planned completion date is 30-Nov-2011.	2.308	-
Congressional Add: Spintronics Memory Storage Technology ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to UC Riverside. ***FY 2011 Plans:*** Begin executing requirements, including the research of the use of oxide films for the electrical and optical control of magnetism; electrical field control of magnetic anisotropy; multilevel 3D magnetic information storage concepts; developing improved diluted magnetic ZnO semiconductors for use in Spin Torque	2.785	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Transfer RAM; and exploring the role of bond line thickness (BLT) in the use of carbon-based nanomaterials. The planned completion date is 31-Mar-2012.		
Congressional Add: Superconducting Quantum Information Technology ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to Northrop Grumman Electronic Systems. Started on execution of requirements, including the investigation of new Josephson junction materials including the electrodes and junction barriers; the design, fabrication, test, and evaluation of sample materials and Josephson junction based circuits; and modeling and simulation to aid the design process and evaluate the test data. ***FY 2011 Plans:*** Continue executing requirements with a planned completion date of 31-May-2011.	0.796	-
Congressional Add: Tunable Micro Radio for Military Systems ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to North Dakota State University. ***FY 2011 Plans:*** Begin executing requirements, including the investigation of advanced RF device packaging technology for integrated RF systems; advanced power amplifier power and mode control schemes and radio integration concepts; advanced tunable filter and nulling concepts; expanded RF test systems and nonlinear modeling techniques; and the investigation and development of a multi-band, multi-mode power amplifier. The planned completion date is 30-Jun-2012.	5.570	-
Congressional Add: Vehicle and Dismount Exploitation Radar (VADER) ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to Northrop Grumman Electronic Systems. Started on execution of requirements, including evaluation and demonstration of design and manufacturing improvements that will enhance the operational utility of the current and future systems as well as reduction of system delivery time. These efforts include investigating software and processor changes that increase system throughput and support operation at higher platform speeds associated with MQ-9 and C-12 aircraft as well as the evaluation of hardware and design drivers that lengthen system delivery times and the initiation of design approaches to implement delivery time reductions. ***FY 2011 Plans:*** Continue executing requirements with a planned completion date of 31-May-2011.	3.979	-
Congressional Add: X-Band/W-Band Solid State Power Amplifier ***FY 2010 Accomplishments:*** Completed the requirements development and awarded the effort to Global Technical Systems of Virginia Beach, VA. Started on execution of requirements, including development, test	0.995	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
and demonstration of RADAR system and subsystem applications for the Phase 1 solid state power amplifier modules, based upon the modules and requirements developed under Phase 1; development of a W-band transmitter subsystem using solid state amplifier modules as the enabling technology; development and integration of an X-band transmitter (solid state amplifier-based design) subsystem into the AN/APS-151 RADAR system; Engineering development testing of the subsystems; and demonstration of solid state amplifier-based technologies in RADAR system applications. ***FY 2011 Plans:*** Continue executing requirements with a planned completion date of 31-Dec-2011.		
Congressional Adds Subtotals	44.287	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*				R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	-	-	134.285	-	134.285	119.751	56.299	58.984	32.628	Continuing	Continuing
1: *Business Enterprise Information System (BEIS)*	-	-	3.927	-	3.927	1.086	1.024	1.094	1.034	Continuing	Continuing
2: *Defense Business Systems Acquisition (DBASE) Staff*	-	-	0.841	-	0.841	1.177	0.939	0.842	0.796	Continuing	Continuing
3: *Defense Agencies Initiative (DAI)*	-	-	65.329	-	65.329	62.819	31.432	47.621	22.494	Continuing	Continuing
4: *Defense Information System for Security (DISS)*	-	-	26.625	-	26.625	24.673	6.757	5.838	4.788	Continuing	Continuing
5: *Defense Travel System (DTS)*	-	-	1.122	-	1.122	0.815	0.256	0.252	0.239	Continuing	Continuing
6: *Virtual Interactive Processing System (VIPS)*	-	-	21.883	-	21.883	10.085	-	-	-	Continuing	Continuing
7: *Wide Area Work Flow (WAWF)*	-	-	2.057	-	2.057	1.992	1.878	1.852	1.830	Continuing	Continuing
8: *Defense Retired and Annuitant Pay System (DRAS)*	-	-	12.501	-	12.501	17.104	14.013	1.485	1.447	Continuing	Continuing

A. Mission Description and Budget Item Justification

The mission of the former Business Transformation Agency (BTA) was to lead and coordinate business transformation efforts across the Department of Defense (DoD). Starting in FY 2012 a large portion of the former BTA mission has been transferred to the Defense Logistics Agency (DLA).

The DLA recognizes that DoD's business enterprise must be closer to its warfighting customers than ever before. Joint military requirements drive the need for greater commonality and integration of business and financial operations.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605070S: *DoD Enterprise Systems Development and Demonstration*

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	134.285	-	134.285
Total Adjustments	-	-	134.285	-	134.285
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY2012 Defense Efficiency - Civilian Pay Raise Reduction	-	-	-0.461	-	-0.461
• FY2012 Defense Efficiency - Non Pay, Non Fuel Purchase Inflation	-	-	-0.173	-	-0.173
• FY2012 Defense Efficiency - Service Support Contractors Task Force Initiative Reduction	-	-	-9.198	-	-9.198
• FY 2012 Enhancement Business Enterprise Information System (BEIS)	-	-	4.200	-	4.200
• FY 2012 Enhancement Defense Business Systems Acquisition (DBASE) Staff	-	-	0.900	-	0.900
• FY 2012 Enhancement Defense Agencies Initiative (DAI)	-	-	70.155	-	70.155
• FY 2012 Enhancement Defense Information System for Security (DISS)	-	-	28.592	-	28.592
• FY 2012 Enhancement Defense Travel System (DTS)	-	-	1.200	-	1.200
• FY 2012 Enhancement Virtual Interactive Processing System (VIPS)	-	-	23.500	-	23.500
• FY 2012 Enhancement Wide Area Work Flow (WAWF)	-	-	2.200	-	2.200
• FY 2012 Enhancement Defense Retired and Annuitant Pay System (DRAS)	-	-	13.370	-	13.370

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*

Change Summary Explanation

FY2012 Defense Efficiency - Civilian Pay Raise Reduction: $ .461M

FY2012 Defense Efficiency - Non Pay, Non Fuel Purchase Inflation Reduction: $ .173M

FY2012 Defense Efficiency - Service Support Contractors Task Force Initiative Reduction: $9.198M

FY 2012 Enhancement Business Enterprise Information System (BEIS): $3.927M

FY 2012 Enhancement Defense Business Systems Acquisition (DBASE) Staff: $ .841M

FY 2012 Enhancement Defense Agencies Initiative (DAI): $65.329

FY 2012 Enhancement Defense Information System for Security (DISS): $26.625M

FY 2012 Enhancement Defense Travel System (DTS): $1.122M

FY 2012 Enhancement Virtual Interactive Processing System (VIPS) : $21.833M

FY 2012 Enhancement Wide Area Work Flow (WAWF): $2.057M

FY 2012 Enhancement Defense Retired and Annuitant Pay System (DRAS): $12.501M

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COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Business Enterprise Information System (BEIS)*	-	-	3.927	-	3.927	1.086	1.024	1.094	1.034	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Program Mission: The BEIS builds upon the mature, existing infrastructure of DFAS Corporate Database/DFAS Corporate Warehouse (DCD/DCW), Defense Departmental Reporting System (DDRS), and Defense Cash Accountability System (DCAS) to provide timely, accurate, and reliable business information from across the DoD to support auditable financial statements as well as provide detailed information visibility for management in support of the Warfighter.

Concept/Scope: Ensure data compliance with SFIS standards; provide security-defined, enterprise-level access to information for ad hoc management queries; and produce external financial management reports/statements based on standardized data. BEIS provides solutions to these goals by:

- Establishing the authoritative source for Standard Financial Information Structure (SFIS) values and providing for standardization by implementing SFIS and United States Standard General Ledger (USSGL) compliant financial reporting capabilities for Audited Financial Statements and Budgetary Reports.
- Providing an enterprise-wide information environment that will serve as the single source for enterprise-wide financial information.
- Serving as the DoD-wide system for Treasury Reporting.
- Providing decision makers with significantly greater access to financial information through data visibility and business intelligence (e.g., Executive Dashboard).

The BEIS functional baseline encompasses a family of services organized into six distinct lines of business:

- Financial Reporting Services: BEIS will provide SFIS compliant financial statements and budgetary reports for DoD.
- Cash Accountability Reporting Services: BEIS will provide SFIS compliant reports of the Department's cash position to the Treasury.
- Enterprise Level Business Intelligence Services: BEIS will provide data aggregation services, collecting select transaction level data from DoD systems of record to support business intelligence. BEIS will also deliver corporate business intelligence capabilities such as contingency reporting, status of funds reporting and management dashboards.
- Integration Support Services: This support will be funded by the requesting activity on a fee-for-service basis.
- Reference Data Services: BEIS will establish a centralized repository for maintaining and exposing referential data to the DoD enterprise. This encompasses the SFIS Library data, Master Appropriation data, Corporate Electronic Funds Transfer (EFT) data, and the Transportation Global Edit Table data.
- General Ledger Services: BEIS will provide general ledger (i.e., financial management information) services for USSOCOM and select Defense Agencies.

Impact: BEIS will provide DoD enterprise-wide financial visibility to meet Enterprise Transition Plan milestones. It will serve as the centralized financial data source and the single source for enterprise Audited Financial Statements and Budgetary Reports. Through the BEIS enterprise business intelligence capability, DoD decision makers will gain improved visibility into the information they need to make strategic budget decisions. The BEIS financial management capabilities will be used by the Military Services, Defense Agencies, and the Under Secretary of Defense (Comptroller). Modernization efforts for the functionality identified for BEIS Family of Systems (FoS) Increment 1 continued to be completed in FY10 by the former BTA; however, there are further enhancements/product improvements required to accomplish deployment/implementation of BEIS Increment 1 capabilities in order to achieve Full Operating Capability (FOC), as well as additional modernization efforts associated with BEIS Increment II capability (i.e., Funds Balance w/Treasury and Reconciliation) which require out-year funding.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Defense Enterprise Information System (BEIS)	-	-	3.927	-	3.927
Description: Formerly organized under the BTA. ***FY 2010 Accomplishments:*** N / A ***FY 2011 Plans:*** N / A ***FY 2012 Base Plans:*** First year of funding under DLA: Financial Reporting Services: - Support Deployment of SFIS Compliant Reporting for Security Assistance - Government Treasury Account Adjusted Trial Balance System (GTAS) (Test) - USACE - TI 96 and CEFMS Redeployment (TI 21) - Support Deployment SFIS Compliant Reporting for Classified Agencies - Continue Enterprise Resource Planning (ERP) Phased Deployment Cash Accountability Reporting Services: - FBWT Reconciliation Tool (Design, Development, & Test) - Implementation of Cash/Treasury Reporting for Air Force - Support of ERP Phased Deployment Enterprise Level Business Intelligence Services: - Continued enhancements of the Enterprise Business Intelligence Services to provide new and improved content of web-based Executive Dashboard, which includes the following items as prioritized by OUSD(C) and DFAS customers: - Budget Metrics: Expand DDRS Interface to Incorporate Daily Obligations and Disbursements for Dept 97, Add EFD interface for Defense Agencies - SMP/Financial Metrics: Continue automation of Source System Feeds for Financial Metrics and Financial Metrics Analysis in Support of Congressional Testimony - Transparency Reporting & Special Interest: Continued expansion of Transparency Reporting to support Open Government Business Integration Services:					

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
- Continued support of Enterprise Business Intelligence and other key DoD enterprise initiatives requiring data integration services. ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	3.927	-	3.927

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

BEIS leveraged existing infrastructure in DoD's investment in DCD/DCW, DDRS, and DCAS. BEIS formally implemented a portfolio management approach to program management that helped to ensure a management strategy was in place to better reallocate assets within the portfolio. BEIS has and will continue to deliver needed capabilities more rapidly and efficiently using a Family of Systems concept providing a functional baseline organized into six distinct lines of business: General Ledger Services, Business Integration Services, Reference Data Services, Enterprise Level Business Intelligence Services, Cash Accountability and Reporting Services, and Financial Reporting Services. Capabilities are being developed incrementally with multiple releases per year to meet the Enterprise Transition Plan milestones provided to Congress. Based on the list of requirements, an overall schedule is produced which includes integrated activities as well as identified products and milestones. Contracts are competitively awarded to keep costs down. Intra-governmental services are being used where possible for infrastructure support by the Defense Finance and Accounting Service (DFAS) Technical Services Organization and Defense Information Systems Agency (DISA) Information Processing Center.

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
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COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2: *Defense Business Systems Acquisition (DBASE) Staff*	-	-	0.841	-	0.841	1.177	0.939	0.842	0.796	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Defense Business Systems Acquisition (DBASE) Staff is a team on highly qualified individuals that are charged with developing and maintaining a portfolio of programs designed to meet the needs of the Department of Defense (DoD). The Staff mission is to provide expert acquisition strategy, advise, oversight, and hands-on assistance to the DoD and to the architecture of DBASE portfolio programs. The DBASE staff primary focus will be to 1) enhance the consistency of processes, and 2) promote excellence in innovation with the following key focus areas:

-Program and acquisition strategy
-Information assurance
-Systems engineering and testing
-Risk ISD & mitigation strategies
-Program training packages
-Sustainability, supportability and logistics
-and on-boarding and off-boarding process support

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: DBASE Staff	-	-	0.841	-	0.841
Description: Formerly organized under the BTA.					
FY 2010 Accomplishments: N / A					
FY 2011 Plans: N / A					
FY 2012 Base Plans: Focus efforts to enhance the consistency of processes, and promote excellence in innovation with the following key focus areas: -Program and acquisition strategy					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
-Information assurance -Systems engineering and testing -Risk ISD & mitigation strategies -Program training packages -Sustainability, supportability and logistics -and on-boarding and off-boarding process support ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	0.841	-	0.841

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N / A

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 3: *Defense Agencies Initiative (DAI)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3: *Defense Agencies Initiative (DAI)*	-	-	65.329	-	65.329	62.819	31.432	47.621	22.494	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The mission of the Defense Agencies Initiative (DAI) program is to modernize the participating Defense Agencies' financial management processes by streamlining financial management capabilities, eliminating material weaknesses, and achieving financial statement auditability for the Agencies and field activities across the DoD. DAI will transform the budget, finance, and accounting operations of the participating Defense Agencies to achieve accurate and reliable financial information for financial accountability and efficient decision making. The DAI implementation approach is to deploy a standardized system solution that effectively addresses the requirements depicted in such tools as the Federal Financial Management Improvement Act (FFMIA) and the DoD Business Enterprise Architecture (BEA), while leveraging the out-of-the-box capabilities of the selected commercial off-the-shelf (COTS) product. The DAI business solution, once implemented, will provide a near real-time, web-based system from a .mil environment of integrated business processes that will enable in excess of 100,000 Defense Agency financial managers, program managers, auditors, and Defense Finance and Accounting Service (DFAS) representatives to make sound financial business decisions to support the warfighter.

DAI will implement a compliant COTS business solution with common business processes and data standards for the following business functions within budget execution requirements: procure to pay; order to cash; acquire to retire; budget to report; cost accounting; grants accounting; budget formulation; time and attendance; and re-sales accounting. The Defense Agencies are committed to leveraging their resources and talents to build an integrated system that supports standardized processes and proves that the DoD is capable of using a single architecture and foundation to support multiple, diverse components.

The benefits of DAI are:

- Common business processes and data standards;
- Access to real-time financial data transactions;
- Significantly reduced data reconciliation requirements;
- Enhanced analysis and decision support capabilities;
- Standardized line of accounting with the use of Standard Financial Information Structure (SFIS); and
- Use of USSGL Chart of Accounts to resolve DoD material weaknesses and deficiencies.

The system integration services for the DAI will include the following:

Project management; Blueprinting; Design, Build, and Unit Test; Reports, Interfaces, Conversion, Extensions (RICE); Testing (integration, functional, performance, conversion, security, user acceptance, operational); End-User Training/Change Management; System Deployment; Conversion; Information Assurance; Sustainment; Data Service; Help Desk Support; Studies and Analysis Support; and Site Surveys.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Defense Agencies Initiative (DAI)	-	-	65.329	-	65.329

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	**PROJECT** 3: *Defense Agencies Initiative (DAI)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Description: Formerly organized under the BTA. ***FY 2010 Accomplishments:*** N / A ***FY 2011 Plans:*** N / A ***FY 2012 Base Plans:*** Deliver the next increment of DAI capability. Continue development of the DAI production baseline (core functionality and RICEW - Reports, Interfaces, Conversions, Extensions and Workflow) to achieve capabilites required for FY13 implementing agencies. Continue program activities to test developmental products and prepare FY13 implementing agencies for implementation of DAI (site surveys, training, infrastrucure and sustainment preparations, development and testing). ***FY 2012 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	-	-	65.329	-	65.329

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

DAI will be developed and implemented using an incremental strategy including major annual software releases to accommodate upgrades and fixes as required by implemented and implementing agencies as governed by its Functional Sponsor and Milestone Decision Authority.

The program management office (PMO) is responsible for all aspects of program control and execution within the Defense Acquisition System. It is supported by multiple contractors in integration of the overall effort, as well as execution of specific functions within the acquisition process. The DAI PMO will use a combination of Firm Fixed Price, Time & Material and Cost plus award fee contracts to support the delivery and sustainment of required capabilities.

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 4: *Defense Information System for Security (DISS)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4: *Defense Information System for Security (DISS)*	-	-	26.625	-	26.625	24.673	6.757	5.838	4.788	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Defense Information System for Security (DISS) will improve information sharing capabilities, accelerate clearance processing timelines, reduce security vulnerabilities, and increase DoD's security mission capability. The DISS mission is to consolidate the DoD security mission into an Enterprise System that will automate the implementation of improved national investigative and adjudicative standards to eliminate costly and inefficient work processes and increase information collaboration across the community. DISS is currently under development and will replace the Joint Personnel Adjudication System (JPAS) a legacy system. When fully deployed this will be a secure, authoritative source for the management, storage and timely dissemination of and access to personnel with the flexibility to provide additional support structure for future DoD security process growth. When deployed, it will accelerate the clearance process, reduce security clearance vulnerabilities, decrease back-end processing timelines, and support simultaneous information sharing within various DoD entities as well as among a number of authorized federal agencies. DISS will provide improved support to the Insider Threat and Personal Identity programs and will be comprised of capabilities that are currently part of the Joint Personnel Adjudication System (JPAS) and will create a robust and real-time capability for all DoD participants in the Military Departments, and DoD Agencies. It will also include automated records check (ARC) functionality and the creation of an adjudicative case management capability with e-Adjudication functionality. DISS will also provide the following operational capabilities, single point of entry for; personnel security, adjudicative case management, and decision support functionality to all DoD adjudicators. DISS will provide near continuous intra-Central Adjudication Facility (CAF) communications on a web-based enabled platform utilizing a unified architecture with security management.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Defense Information System for Security (DISS)	-	-	26.625	-	26.625
Description: Formerly organized under the BTA.					
FY 2010 Accomplishments: N / A					
FY 2011 Plans: N / A					
FY 2012 Base Plans: Complete CATS and ACES physical transfer of infrastructure, obtain hardware required to support JVS development efforts for the four environments: pre-production, production, development/test and disaster recovery, purchase of software components, install and configure configuration management tools, complete					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 4: *Defense Information System for Security (DISS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
test and development of Enterprise Services (Release 2- how component systems are integrated into one overarching system), Joint Verification System (Release 3 - security clearance management function) and integration of CATS/ACES/JVS (Release 4 - final integration), DISS C&A, complete Milestone C documentation, complete Production and Test Readiness Reviews, continue change management/communications outreach efforts, risk management, and schedule management. ***FY 2012 OCO Plans:*** N/ A					
Accomplishments/Planned Programs Subtotals	-	-	26.625	-	26.625

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The Defense Information System for Security (DISS) is being developed as a family of systems utilizing the Joint Reform Team new personnel security clearance and suitability determination process inside the Department of Defense (DoD). The new system will improve information sharing capabilities, accelerate clearanceprocessing timelines, reduce security vulnerabilities, and increase DoD's security mission capability. DISS is being implemented through an evolutionary acquisition approach based on increments. The deployment of each increment to DISS allows the fielding of capabilities and provides an approach which limits the Government's risk.

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 5: *Defense Travel System (DTS)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
5: *Defense Travel System (DTS)*	-	-	1.122	-	1.122	0.815	0.256	0.252	0.239	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Defense Travel System (DTS) is a fully integrated, electronic, end-to-end financial management system that automates temporary duty travel for the Department of Defense (DoD). DTS meets unique DoD mission, security and financial system requirements within the guidelines of Federal and DoD travel policies and regulations. DTS automates travel authorizations, reservations and arrangements, voucher processing, payment, reconciliation, accountability and archiving. DTS employs Digital Signature and Login/Authentication which requires users to provide a signed response using a valid DoD Public Key Infrastructure (PKI) certificate to gain access to the DTS application. Travel documents created in DTS are digitally signed with the user's PKI certificate to provide a means of identifying the signer, verifying the document's integrity, and enforcing non-repudiation of the signature by the signer.

DTS is a Major Automated Information System (MAIS), Acquisition Category (ACAT) 1AC program. DTS delivers capability by evolutionary acquisition utilizing incremental development; recognizing up front the need for future capability improvements. The DTS has a flexible design so that each increment builds upon its core functionality, dependent on available, mature technology providing increasing capabilities to travelers, travel administrators, and process owners. Full Operational Capability (FOC) for Increment was achieved in March 2010. Future capability improvements will be implemented as P3I beginning FY11.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Defense Travel System (DTS)	-	-	1.122	-	1.122
Description: Formerly organized under the BTA.					
FY 2010 Accomplishments: N / A					
FY 2011 Plans: N / A					
FY 2012 Base Plans: First year of funding under the DLA: - Continue "work-off" of development related Software Problem Reports (SPRs) - Continue development, testing and integration of Financial Partner System (FPS) interfaces, test and integrate software releases, FPS system changes - Continue development of new functionality to allow phase out legacy travel systems					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 5: *Defense Travel System (DTS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
- Continue to update Interface Control Documents and Memorandums of Agreement (MOA) and Perform Limited User Testing (LUT) - Continue Program Management and Engineering support to include acquisition compliance reporting, acquisition subject matter expertise, business case analysis, metrics, system analysis, requirements support, contract execution, contract documentation and test management oversight. ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	1.122	-	1.122

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The Program Management Office (PMO)-DTS Acquisition Strategy (AS) has been updated to address the award of an 18 month sole source contract ultimately leading to a follow on competition for a new Prime Contract.

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 6: *Virtual Interactive Processing System (VIPS)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
6: *Virtual Interactive Processing System (VIPS)*	-	-	21.883	-	21.883	10.085	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Virtual Interactive Processing System (VIPS) will modernize and automate the Information Technology (IT) capabilities for qualifying Applicants into the Military Service during wartime, peacetime, and mobilization. VIPS will enable a responsive, flexible and efficient means to qualify Applicants to meet manpower resource requirements for the uniformed Services, Coast Guard, and National Guard routine and contingency operations. VIPS will be the future accessioning system to be used by the US Military Entrance Processing Command (USMEPCOM) which serves as the single entry point for determining the physical, aptitude, and conduct qualifications of candidates for enlistment. VIPS will provide the capability to electronically acquire, process, store, secure, and seamlessly share personnel data across the Accessions Community of Interest (ACOI). When fully implemented, VIPS will reduce the cycle time required to induct enlistees to meet the needs of Homeland Defense, reduce the number of visits to the Military Entrance Processing Stations (MEPS), reduce manual data entry errors, and reduce attrition through better pre-screening practices. The implementation of a Modular Open System Architecture (MOSA), approach will enable data to be securely available to applicants and ACOI partners such as Recruiting and Training Commands, Defense Manpower Data Center (DMDC), Military Health System, Human Resource Management (HRM), and Defense Travel Management Office (DTMO). VIPS will support compliance with DoD direction for a net-centric environment and take advantage of automated data capture technology, e.g., medical equipment with the capability to capture and electronically transmit exam results. The accessioning system of the future will be location independent, virtually paper-free, and automated to assist with bringing the right people at the right time to operational commanders.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Virtual Interactive Processing System (VIPS)	-	-	21.883	-	21.883
Description: Formerly organized under the BTA. ***FY 2010 Accomplishments:*** N / A ***FY 2011 Plans:*** N / A ***FY 2012 Base Plans:*** The VIPS PMO plans to accomplish the following in FY12: Program Management and Engineering support which includes acquisition compliance reporting, acquisition subject matter expertise, business case analysis, metrics, system analysis, requirements support, contract execution, contract documentation, investment activities, and test management oversight for Increment 1.0.					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 6: *Virtual Interactive Processing System (VIPS)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Increment 1.0 will achieve Full Operational Capability (FOC), complete deployment activities and transition to sustainment. VIPS PMO will complete the development of the requirements and related acquisition activities in support of Increment 2.0. ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	21.883	-	21.883

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

In accordance with DoDI 5000.02, the VIPS Program plans to use an incremental approach to satisfy USMEPCOM's requirements for VIPS. Requirements have been articulated to support development of an initial increment that provides the core platform for VIPS as well as enough capabilities to fully assess a candidate into the military. Increment 1.0 content provides sufficient capability to retire the legacy system, USMEPCOM Integrated Resource System (USMIRS). Future increments will address the full VIPS capabilities necessary to realize the Return on Investment (ROI) potential identified in the VIPS Milestone B Business Case.

VIPS Increment 1.0 was procured under a single contract, competitively awarded to provide both a core infrastructure and business functions to support the accessions process. The Program Management Office (PMO) awarded a single Increment 1.0 contract on September 30, 2010 that will initially provide for the design of VIPS Increment 1.0 through Preliminary Design Review (PDR). The prime and sub contractors will also provide design, development, and deployment of the ROC prototype. Once PDR is complete, the program will seek a Milestone B decision. Following a successful Milestone B decision, Option 2 will be exercised on the contract to complete design, testing, and deployment. The VIPS Increment 1.0 contract also covers fielding and training support. System integration (to include management of the technical configuration baseline) and sustainment across VIPS was included as part of the Increment 1.0 contract. VIPS PMO has adopted rigorous cost controls using earned value management and a comprehensive risk management program to manage program execution.

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 7: *Wide Area Work Flow (WAWF)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
7: *Wide Area Work Flow (WAWF)*	-	-	2.057	-	2.057	1.992	1.878	1.852	1.830	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

WAWF is the DoD enterprise system for secure electronic submission, acceptance and processing of invoices. It is mandated for use by all DoD Services and Agencies for electronic invoicing by DFAR 252.232-7003. WAWF processes over 86 million transactions worth $301B per year and saves DoD millions of dollars annually in processing cost and avoided interest (over $77.6 M in FY10). WAWF brings together the invoice, the receiving report, and the contract from EDA to provide the accounting and entitlement systems with the three-way match needed to authorize payment. WAWF is also the Enterprise data entry point for the Item Unique Identifier (IUID) and Government Furnished Property (GFP) programs, the source of receipt and acceptance data for Service Enterprise Resource Planning Systems (ERP), and is central for the Business Enterprise Architecture (BEA) enterprise solutions for Standard Financial Information Structure (SFIS) and Inter Governmental Transfer (IGT). The benefits to DoD are a single face to industry suppliers, global accessibility of documents, reduced need for re-keying, improved data accuracy, real-time processing, secure transactions with audit capability, and faster processing resulting in reduced interest penalties. For vendors, benefits include the capability to electronically submit invoices, reduction of lost or misplaced documents, and online access to contract payment records.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Wide Area Work Flow (WAWF)	-	-	2.057	-	2.057
Description: Formerly organized under the BTA. ***FY 2010 Accomplishments:*** N / A ***FY 2011 Plans:*** N / A ***FY 2012 Base Plans:*** - Continue System/Program Testing and Analysis including integration of multiple systems developed for multiple organizations by multiple vendors into the Electronic Commerce Infrastructure. - Continue Joint Interoperability Test Command (JITC) developmental, system/integration, and Operational Acceptance Testing for each version release of WAWF systems. ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	2.057	-	2.057

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	**PROJECT** 7: *Wide Area Work Flow (WAWF)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N / A

E. Performance Metrics

N / A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	PROJECT 8: *Defense Retired and Annuitant Pay System (DRAS)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
8: *Defense Retired and Annuitant Pay System (DRAS)*	-	-	12.501	-	12.501	17.104	14.013	1.485	1.447	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The primary objective of Defense Retired and Annuitant Pay System (DRAS) is to establish and maintain retired military pay accounts. The DRAS will provide unique and stellar payroll services to approximately 2.5 million military retirees, former spouses and their beneficiaries. The system is the cornerstone of retirement system and is the vehicle for fielding and resourcing a fully integrated retirement pay system, while concurrently supporting reengineered business processes, replacing failing systems, reducing data collection burdens and enhancing readiness.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Defense Retired and Annuitant Pay System (DRAPS)	-	-	12.501	-	12.501
Description: New program to the DLA. ***FY 2010 Accomplishments:*** N / A ***FY 2011 Plans:*** N / A ***FY 2012 Base Plans:*** This is a new military retiree pay system which will focus on three primary objectives: -Establish ritired military pay system. -Replace antiquated legacy system. -Atomate many manually intensive processes. - ***FY 2012 OCO Plans:*** N / A					
Accomplishments/Planned Programs Subtotals	-	-	12.501	-	12.501

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 5: *Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0605070S: *DoD Enterprise Systems Development and Demonstration*	**PROJECT** 8: *Defense Retired and Annuitant Pay System (DRAS)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N / A

E. Performance Metrics

N / A

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 6: *RDT&E Management Support*				R-1 ITEM NOMENCLATURE PE 0605502S: *Small Business Innovative Research (SBIR)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	2.356	-	-	-	-	-	-	-	-	Continuing	Continuing
1: *Small Business Innovative Research (SBIR)*	2.356	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Defense Logistics Agency's (DLA's) ability to deliver Americans the right logistics solution in every transaction requires more than successful management of the Department's wholesale supplies and suppliers. It requires supply chain excellence. Our military's ability to generate and sustain combat readiness indefinitely, anywhere on the globe requires that DLA-managed materiel flow seamlessly and as needed from the nation's industrial base to where it is ultimately used.

DLA's Small Business Innovative Research (SBIR) program seeks to solicit high-risk research and development proposals from the small business community. All selections shall demonstrate and involve a degree of technical risk where the technical feasibility of the proposed work has not been fully established. Phase I proposals should demonstrate the feasibility of the proposed technology and the merit of a Phase II for a prototype or at least a proof-of-concept demonstration. Phase II selections will be strongly influenced on future market possibilities and commercialization potential demonstrated.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	2.356	-	-	-	-
Total Adjustments	2.356	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY10 SBIR transfer from LOG R&D (0603712S)	1.215	-	-	-	-
• FY10 SBIR transfer from IP Mantech (0708011S)	1.058	-	-	-	-
• FY10 SBIR transfer from USTRANSCOM (0603713S)	0.083	-	-	-	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 6: *RDT&E Management Support*	**R-1 ITEM NOMENCLATURE** PE 0605502S: *Small Business Innovative Research (SBIR)*

Change Summary Explanation

FY10 SBIR Transfers: $2.356M

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 6: *RDT&E Management Support*	R-1 ITEM NOMENCLATURE PE 0605502S: *Small Business Innovative Research (SBIR)*	PROJECT 1: *Small Business Innovative Research (SBIR)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Small Business Innovative Research (SBIR)*	2.356	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Defense Logistics Agency's (DLA's) ability to deliver Americans the right logistics solution in every transaction requires more than successful management of the Department's wholesale supplies and suppliers. It requires supply chain excellence. Our military's ability to generate and sustain combat readiness indefinitely, anywhere on the globe requires that DLA-managed materiel flow seamlessly and as needed from the nation's industrial base to where it is ultimately used.

DLA's Small Business Innovative Research (SBIR) program seeks to solicit high-risk research and development proposals from the small business community. All selections shall demonstrate and involve a degree of technical risk where the technical feasibility of the proposed work has not been fully established. Phase I proposals should demonstrate the feasibility of the proposed technology and the merit of a Phase II for a prototype or at least a proof-of-concept demonstration. Phase II selections will be strongly influenced on future market possibilities and commercialization potential demonstrated.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: SBIR Accomplishments/Plans	2.356	-	-
FY 2010 Accomplishments: One of DLA's Phase II SBIR programs has developed technology to make aerospace hatch covers from three dimensional engineering composite performs that are 40% lighter and 65% cheaper than the legacy parts they replace. Another Phase II program has developed an innovative material to make accurate patterns for cast metal parts.			
Accomplishments/Planned Programs Subtotals	2.356	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	45.482	21.798	23.103	-	23.103	26.762	24.554	24.925	25.337	Continuing	Continuing
1: *Combat Rations (CORANET)*	1.720	1.924	1.766	-	1.766	2.047	2.089	2.122	2.157	Continuing	Continuing
2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*	3.735	4.220	3.873	-	3.873	4.488	4.578	4.656	4.733	Continuing	Continuing
3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*	2.322	2.607	2.369	-	2.369	2.728	2.784	2.830	2.877	Continuing	Continuing
4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*	1.083	1.230	1.129	-	1.129	1.308	1.335	1.358	1.380	Continuing	Continuing
5: *Material Acquisition Electronics (MAE)*	9.830	10.839	12.205	-	12.205	14.183	11.760	11.958	12.157	Continuing	Continuing
6: *Battery Network (BATTNET)*	0.927	0.978	1.761	-	1.761	2.008	2.008	2.001	2.033	Continuing	Continuing
7: *Other Congressional Adds (OCAs)*	25.865	-	-	-	-	-	-	-	-	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, world-class 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), and Material Acquisition Electronics (MAE) and Battery Network (BATTNET). As well as, Other Congressional Add (OCA) programs that are Congressionally Directed efforts.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	20.514	21.798	25.612	-	25.612
Current President's Budget	45.482	21.798	23.103	-	23.103
Total Adjustments	24.968	-	-2.509	-	-2.509
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.058	-			
• FY 2010 Congressional General Reductions	-0.274	-	-	-	-
• FY 2010 Congressional Additions	26.300	-	-	-	-
• FY 2012 Departmental Fiscal Guidance	-	-	-3.443	-	-3.443
• FY 2012 Defense Efficiency - Service Support Contractors	-	-	-0.066	-	-0.066
• FY 2012 Industrial Preparedness Manufacturing Technology Supply Chain Enhancements	-	-	1.000	-	1.000

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Project: 7: *Other Congressional Adds (OCAs)*		
Congressional Add: *Copper Based Casting Technology Applications (CBCT)*	1.592	-
Congressional Add: *Industrial Base Innovation Fund*	19.896	-
Congressional Add: *Northwest Defense Manufacturing Initiative*	1.989	-
Congressional Add: *Ultra-high Strength Steele for Landing Geer*	1.592	-
Congressional Add: *Vet-Biz Initiative for National Sustainment (VINS)*	0.796	-
Congressional Add Subtotals for Project: 7	25.865	-
Congressional Add Totals for all Projects	25.865	-

Change Summary Explanation

FY 2010 Congressional General Reductions: $ .274M

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*

FY 2010 Congressional Additions: $26.300M

FY2012 Departmental Fiscal Guidance Reductions: $3.443M

FY 2012 Defense Efficiency - Service Support Contractors: $ .066

FY 2012 Industrial Preparedness Manufacturing Technology Supply Chain Enhancements: $1.000M

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 1: *Combat Rations (CORANET)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Combat Rations (CORANET)*	1.720	1.924	1.766	-	1.766	2.047	2.089	2.122	2.157	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

In FY 2009, DLA Troop Support Subsistence sold $4.75 billion in subsistence goods and services to the Department of Defense, making it the largest supply chain managed by DLA Troop Support. 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 Soldier Center, United States Department of Agriculture (USDA), US Army Veterinary Command, US Army Public Health Command, DLA Logistics R&D, DLA Troop Support Subsistence and academia to research and transition improved technologies for operational rations.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Combat Rations Accomplishments/Plans	1.720	1.924	1.766
FY 2010 Accomplishments: Improved MRE packaging. Determine the manufacturability of non-hydrogen ration heaters. Infusion of antioxidants into MRE fruits. Extended shelf life grade A shell eggs.			
FY 2011 Plans: Explore continuous retort processing. Transition knurled seal technology for retort pouches. Develop a dimensional tear test for MREs.			
FY 2012 Plans: Develop new short term projects.			
Accomplishments/Planned Programs Subtotals	1.720	1.924	1.766

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 1: *Combat Rations (CORANET)*

E. Performance Metrics

Performance metrics include improved quality, decreased cost and improved acceptance of military combat rations. The performance objective is to transition 50% of completed projects to the industrial base. Cost benefit analysis is performed on the CORANET portfolio annually.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 1: *Combat Rations (CORANET)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Clemson University:Clemson, South Carolina	0.020	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Dairy Management Incorporated:Des Plaines, Illinois	0.020	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Master Packaging:Tampa, Florida	0.020	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/CPFF	Michigan State University:East Lansing, Michigan	0.397	0.065	Dec 2010	0.010	Dec 2011	-		0.010	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	2.767	0.550	Dec 2010	0.550	Dec 2011	-		0.550	Continuing	Continuing	Continuing
f. Manufacturing Process Support Costs	C/CPFF	SOPAKO, Incorporated:Mullins, South Carolina	0.173	0.040	Dec 2010	0.050	Dec 2011	-		0.050	Continuing	Continuing	Continuing
g. Manufacturing Process Support Costs	C/CPFF	University of Illinois:Urbana, Illinois	0.035	0.060	Dec 2010	0.050	Dec 2011	-		0.050	Continuing	Continuing	Continuing
h. Manufacturing Process Support Costs	C/CPFF	University of Tennessee:Knoxville, Tennessee	0.723	0.361	Dec 2010	0.360	Dec 2011	-		0.360	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	1.126	0.350	Dec 2010	0.360	Dec 2011	-		0.360	Continuing	Continuing	Continuing
j. Manufacturing Process Support Costs	C/CPFF		0.035	0.040	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 1: *Combat Rations (CORANET)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Cadillac Products Incorporated:Troy, Michigan											
k. Manufacturing Process Support Costs	C/CPFF	Ohio State University Research Foundation:Columbus, Ohio	0.035	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing
l. Manufacturing Process Support Costs	C/CPFF	Oregon Freeze Dry Incorporated:Albany, Oregon	0.035	0.010	Dec 2010	0.010	Dec 2010	-		0.010	Continuing	Continuing	Continuing
m. Manufacturing Process Support Costs	C/CPFF	Research and Development Associates:San Antonio, Texas	0.183	0.150	Dec 2010	0.150	Dec 2011	-		0.150	Continuing	Continuing	Continuing
n. Manufacturing Process Support Costs	C/CPFF	Sterling Foods, Limited:San Antonio, Texas	0.035	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	Continuing
o. Manufacturing Process Support Costs	C/CPFF	Virginia Polytechnic Institute and State University:Blacksburg, Virginia	0.217	0.100	Dec 2010	0.043	Dec 2011	-		0.043	Continuing	Continuing	Continuing
p. Manufacturing Process Support Costs	C/CPFF	Washington State Universtiy:Pullman, Washington	0.051	0.100	Dec 2010	0.050	Dec 2011	-		0.050	Continuing	Continuing	Continuing
q. Manufacturing Process Support Costs	C/CPFF	Logistics Management Institute:McLean, Virginia	0.151	0.028	Dec 2010	0.053	Dec 2011	-		0.053	Continuing	Continuing	Continuing
r. Manufacturing Process Support Costs	C/CPFF	Ameriqual, Inc.:Evansville, Indiana	0.020	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	
s. Manufacturing Process Support Costs	C/CPFF	Wornick:McAllen, Texas	0.080	0.010	Dec 2010	0.010	Dec 2011	-		0.010	Continuing	Continuing	
		Subtotal	6.123	1.924		1.766		-		1.766			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 1: *Combat Rations (CORANET)*	

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.123	1.924		1.766		-		1.766			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 1: *Combat Rations (CORANET)*

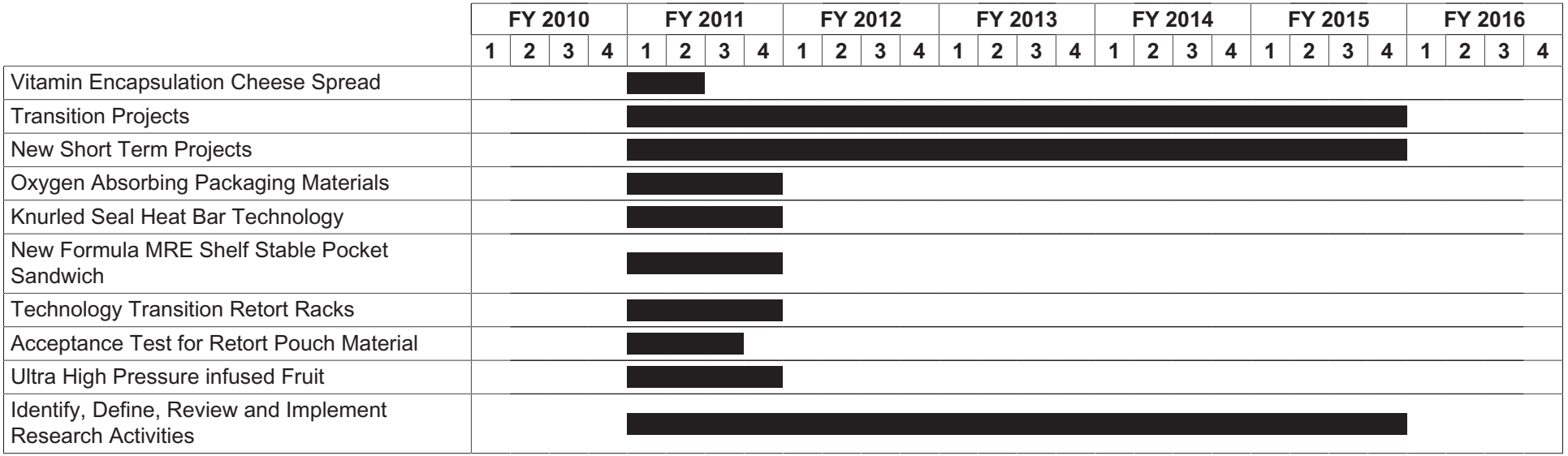

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 1: *Combat Rations (CORANET)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Vitamin Encapsulation Cheese Spread	1	2011	2	2011
Transition Projects	1	2011	4	2015
New Short Term Projects	1	2011	4	2015
Oxygen Absorbing Packaging Materials	1	2011	4	2011
Knurled Seal Heat Bar Technology	1	2011	4	2011
New Formula MRE Shelf Stable Pocket Sandwich	1	2011	4	2011
Technology Transition Retort Racks	1	2011	4	2011
Acceptance Test for Retort Pouch Material	1	2011	3	2011
Ultra High Pressure infused Fruit	1	2011	4	2011
Identify, Define, Review and Implement Research Activities	1	2011	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*	3.735	4.220	3.873	-	3.873	4.488	4.578	4.656	4.733	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Department of Defense, through the Defense Logistics Agency, purchased $2.5 billion of clothing and textile items in FY 2009. 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 technologies and process reengineering to the end-to-end management of clothing and individual equipment (CIE). CDUM is focusing on three thrust areas:

1. Supply Chain Process Reengineering and Advanced Technology for Military Clothing
2. Central Issue Facility (CIF) Process Reengineering and Shared Visibility
3. Manufacturing Methods for Product Performance and Quality Improvement

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Customer Driven Uniform Manufacturing Accomplishments/Plans	3.735	4.220	3.873
FY 2010 Accomplishments: Radio Frequency Identification (RFID) Item Level Technology for End-item Manufacturers and Third Party Logistics Providers Shade Study			
FY 2011 Plans: RFID Item Level Technology for Component Manufacturers, Fabric Manufacturers and Individual Equipment			
FY 2012 Plans: CDUM 2 New Initiatives			
Accomplishments/Planned Programs Subtotals	3.735	4.220	3.873

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

The CDUM program focus is on clothing and individual equipment (CIE). The cost benefit analysis for the RFID initiative has demonstrated improvements in inventory accuracy through reductions in adjustments.

Cost benefit analyses are performed on CDUM initiatives on an ongoing basis.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Production Data Integration Technologies:Long Beach, California	6.800	1.600	Jan 2010	0.846	Jan 2011	-		0.846	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	AdvanTech:Annapolis, Maryland	5.267	1.300	Jan 2010	1.737	Jan 2011	-		1.737	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Human Solutions NA, Incorporated:Dearborn, Michigan	0.750	-		-		-		-	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/BPA	Logistics Management Institute:McLean, Virginia	2.600	1.320	Jan 2010	1.290	Jan 2011	-		1.290	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Atlantic Diving Supply:Virginia Beach, VA	0.129	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	15.546	4.220		3.873		-		3.873			

	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	15.546	4.220		3.873		-		3.873			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*

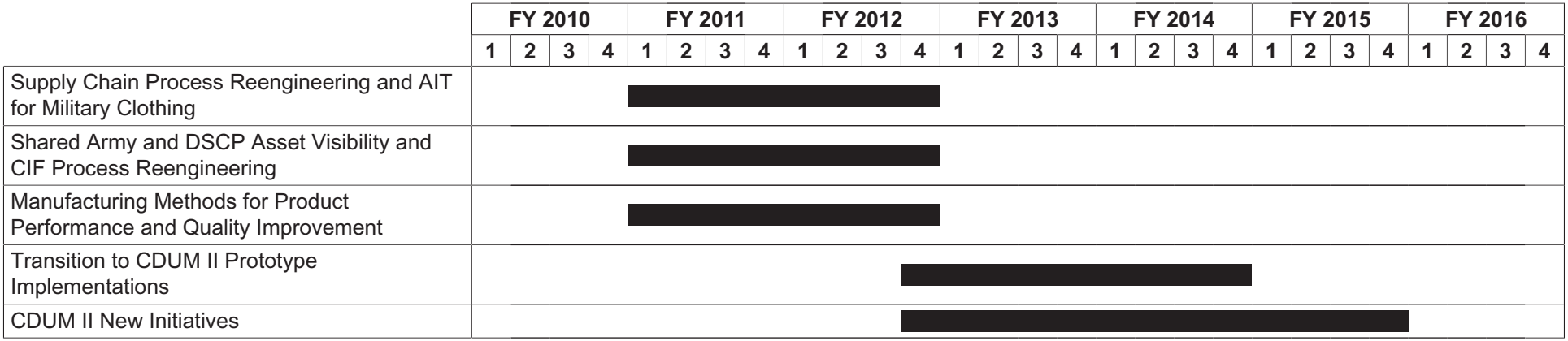

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Supply Chain Process Reengineering and AIT for Military Clothing	1	2011	4	2012
Shared Army and DSCP Asset Visibility and CIF Process Reengineering	1	2011	4	2012
Manufacturing Methods for Product Performance and Quality Improvement	1	2011	4	2012
Transition to CDUM II Prototype Implementations	4	2012	4	2014
CDUM II New Initiatives	4	2012	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*	2.322	2.607	2.369	-	2.369	2.728	2.784	2.830	2.877	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 10% 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 Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Procurement Readiness Optimization-Advanced Casting Technology Accomplishments/Plans	2.322	2.607	2.369
FY 2010 Accomplishments: Develop technology to predict service life performance of steel castings. Develop statistical properties for E357 sand cast aluminum for aerospace castings.			
FY 2011 Plans: Completed digital radiography standard for investment steel castings. Develop high strength cast steels that can substituted for titanium casting with no weight penalty with substantial cost savings.			
FY 2012 Plans: Awaiting award of new casting contract(s) in order to determine new projects. Award is anticipated 2nd quarter FY11.			
Accomplishments/Planned Programs Subtotals	2.322	2.607	2.369

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*

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, but the ceiling will be raised so work to continue through FY11. A Broad Agency Announcement (BAA) was issued on 29 July 2010, with proposals due 22 September 2010. Award is expected 2nd quarter FY11.

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 Cost Analysis: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Advanced Technologies International:North Charleston, South Carolina	8.113	2.607	Mar 2011	2.369	Mar 2012	-		2.369	Continuing	Continuing	Continuing
		Subtotal	8.113	2.607		2.369		-		2.369			

	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.113	2.607		2.369		-		2.369			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*

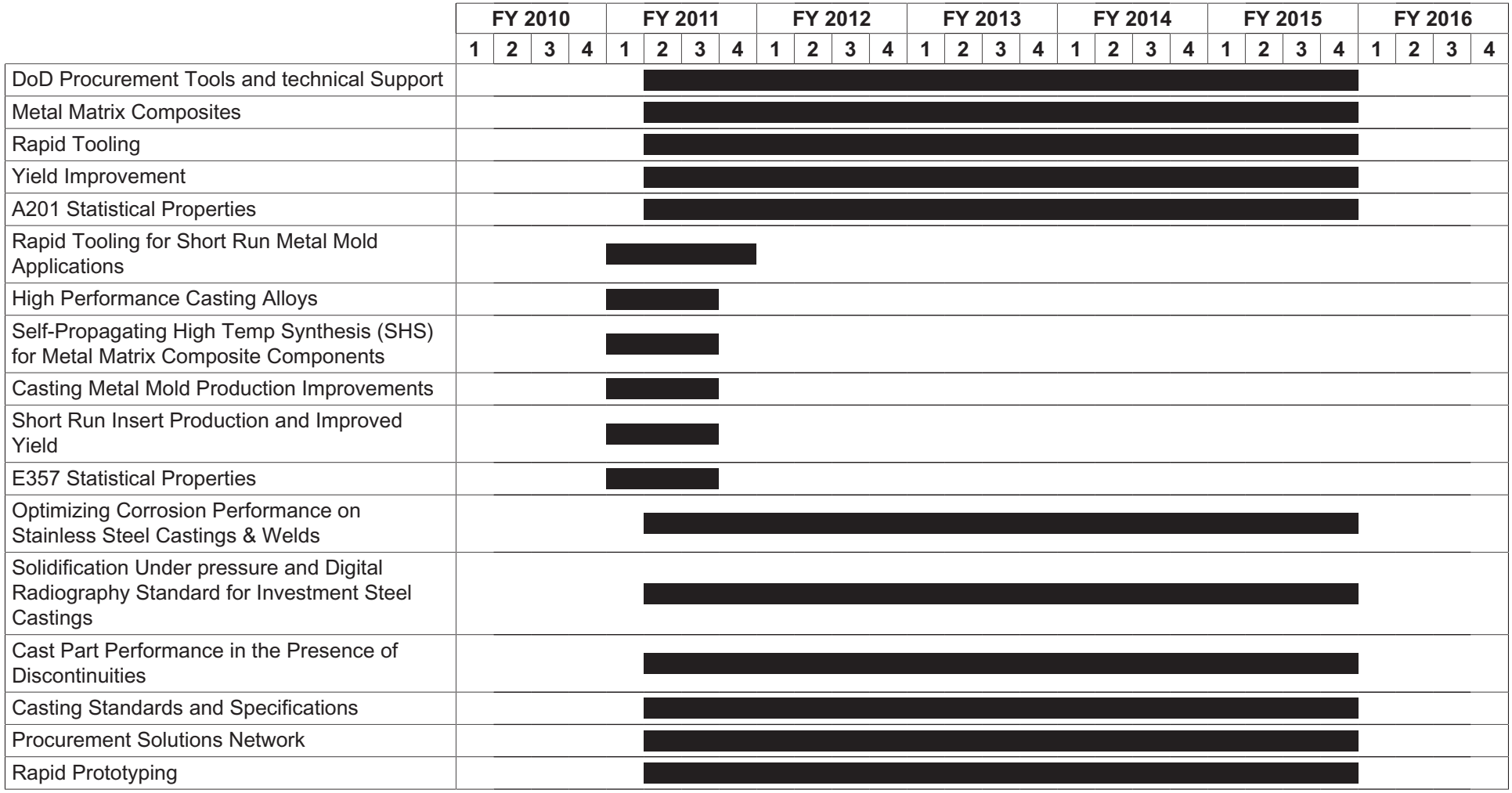

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
DoD Procurement Tools and technical Support	2	2011	4	2015
Metal Matrix Composites	2	2011	4	2015
Rapid Tooling	2	2011	4	2015
Yield Improvement	2	2011	4	2015
A201 Statistical Properties	2	2011	4	2015
Rapid Tooling for Short Run Metal Mold Applications	1	2011	4	2011
High Performance Casting Alloys	1	2011	3	2011
Self-Propagating High Temp Synthesis (SHS) for Metal Matrix Composite Components	1	2011	3	2011
Casting Metal Mold Production Improvements	1	2011	3	2011
Short Run Insert Production and Improved Yield	1	2011	3	2011
E357 Statistical Properties	1	2011	3	2011
Optimizing Corrosion Performance on Stainless Steel Castings & Welds	2	2011	4	2015
Solidification Under pressure and Digital Radiography Standard for Investment Steel Castings	2	2011	4	2015
Cast Part Performance in the Presence of Discontinuities	2	2011	4	2015
Casting Standards and Specifications	2	2011	4	2015
Procurement Solutions Network	2	2011	4	2015
Rapid Prototyping	2	2011	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*	1.083	1.230	1.129	-	1.129	1.308	1.335	1.358	1.380	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 up to 10% 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 Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Procurement Readiness Optimization-Forging Advanced System Technology Accomplishments/Plans	1.083	1.230	1.129
FY 2010 Accomplishments: Projects are still in process. The projects include: investigation, development, and deployment of new and innovative tools, technologies and techniques to address forging design and acquisition for weapon systems. Projects include forming simulation; system performance prediction, new forging materials, and rapid tooling. Investigate best practices and models for Multi-Material, Multi-Method Evaluations; develop an affordable, easy-to-use, and effective model; demonstrate the model; and transition the model.			
FY 2011 Plans: Develop and deploy a web based tool that links forging customers to forging suppliers; lean six sigma process improvements at forges; re-evaluate and develop multi-material, multi-method evaluation tool. Address vexing forging supply chains to improve forging design and acquisition processes. Exploit the strength and toughness of "the Atlas of Metal Products" in old and new weapon systems. Begin planning for acquisition to solicit for next forging program.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Finalize a web based tool that links forging customers to forging suppliers; begin implementation of lean six sigma process improvements at forges; develop multi-material, multi-method evaluation tool. Address vexing forging supply chains to improve forging design and acquisition processes.			
Accomplishments/Planned Programs Subtotals	1.083	1.230	1.129

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

A Broad Agency Announcement (BAA) evaluations complete.

E. Performance Metrics

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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Advanced Technologies International:North Charleston, South Carolina	4.499	1.230	Jan 2011	1.129	Jan 2012	-		1.129	Continuing	Continuing	Continuing
		Subtotal	4.499	1.230		1.129		-		1.129			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.499	1.230		1.129		-		1.129			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*

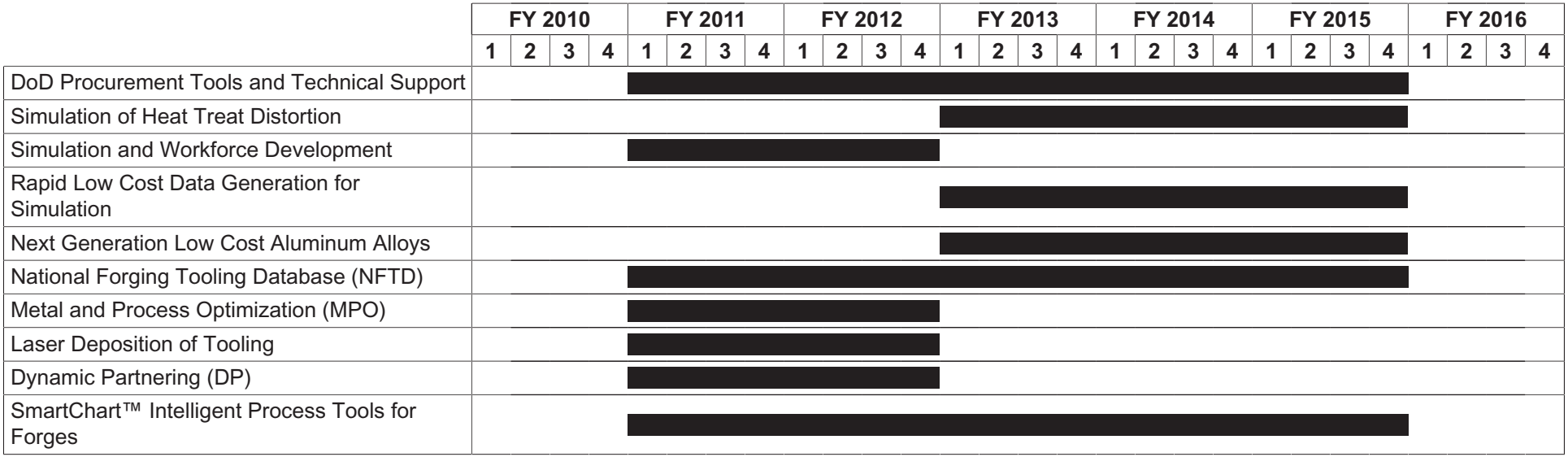

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
DoD Procurement Tools and Technical Support	1	2011	4	2015
Simulation of Heat Treat Distortion	1	2013	4	2015
Simulation and Workforce Development	1	2011	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	2011	4	2015
Metal and Process Optimization (MPO)	1	2011	4	2012
Laser Deposition of Tooling	1	2011	4	2012
Dynamic Partnering (DP)	1	2011	4	2012
SmartChart™ Intelligent Process Tools for Forges	1	2011	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 5: *Material Acquisition Electronics (MAE)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
5: *Material Acquisition Electronics (MAE)*	9.830	10.839	12.205	-	12.205	14.183	11.760	11.958	12.157	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 Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Material Acquisition Electronics Accomplishments/Plans	9.830	10.839	12.205
FY 2010 Accomplishments: MAE advanced our 0.5 micron design, test, and fabrication technologies, the 0.5 micron silicon-on-insulator process is nearly complete and will enter qualification later this calendar year, expanding our capabilities for high circuit density and radiation hardened ICs. The IC characterization tool continued development, increasing the image capture speed by a factor of ten (10) and recognizing feature sizes to 110 nanometers, thereby accommodating more complex DoD IC requirements and providing critical missing technical specifications. MAE focused its IC requirements assessment on the linear Emulation market segment, laying the framework for linear development roadmap.			
FY 2011 Plans: MAE will continue to develop additional capability and expand it to succeeding generations of obsolete ICs through successive technology nodes. These technologies will be demonstrated through performance based specification and Weapons System IC insertions. In addition, there has been increased DoD concern over trusted sourcing issues, as most IC design and production has migrated to overseas suppliers.			
FY 2012 Plans: MAE will formulate specific device family targets and initiate a Linear Emulation thrust. It will initiate 250 nanometer Emulation fabrication process (High Performance (speed) and Density) development providing additional FSC 5962 coverage. It will initiate implementation of a Trusted Design capability, responding to Agency, Customer, and DoD concerns. It will continue 350			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 5: *Material Acquisition Electronics (MAE)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
nanometer Emulation fabrication process development, bringing new capabilities to the Customers and Agency. It will integrate the Integrated Circuit Characterization tool advancements into Emulation flow, enabling supply for non-procurables.			
Accomplishments/Planned Programs Subtotals	9.830	10.839	12.205

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Transition of one technology implementation (base array) to low-rate initial production or full-scale production.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 5: *Material Acquisition Electronics (MAE)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Sarnoff Corporation:Princeton, New Jersey	39.527	10.839	Oct 2011	12.205	Oct 2012	-		12.205	Continuing	Continuing	Continuing
		Subtotal	39.527	10.839		12.205		-		12.205			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	39.527	10.839		12.205		-		12.205			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 5: *Material Acquisition Electronics (MAE)*

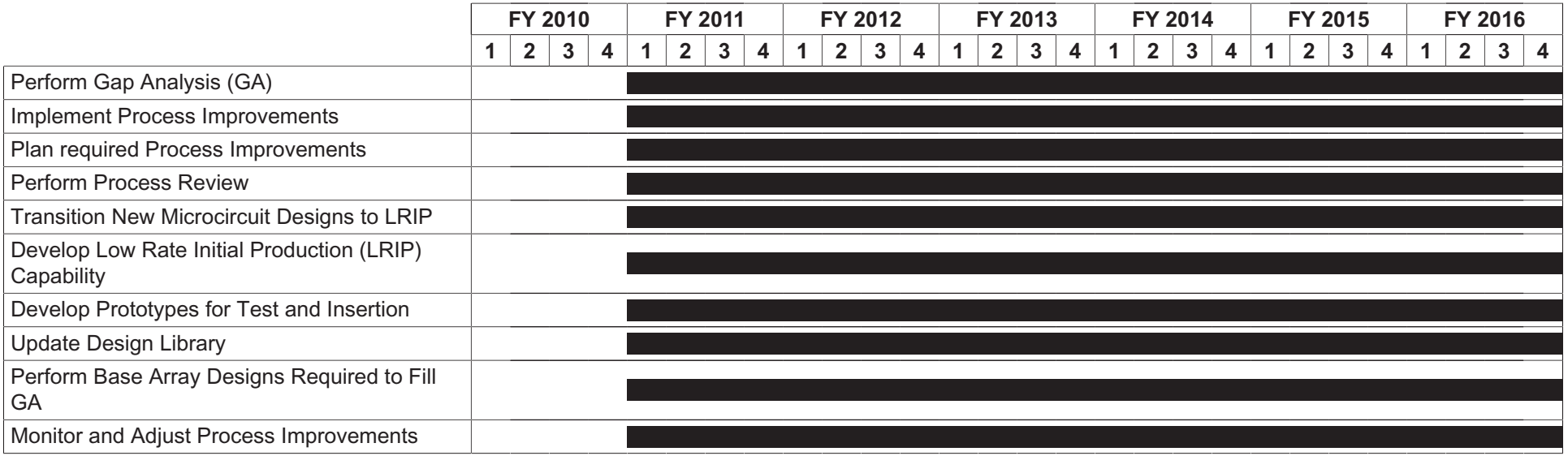

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 5: *Material Acquisition Electronics (MAE)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Perform Gap Analysis (GA)	1	2011	4	2016
Implement Process Improvements	1	2011	4	2016
Plan required Process Improvements	1	2011	4	2016
Perform Process Review	1	2011	4	2016
Transition New Microcircuit Designs to LRIP	1	2011	4	2016
Develop Low Rate Initial Production (LRIP) Capability	1	2011	4	2016
Develop Prototypes for Test and Insertion	1	2011	4	2016
Update Design Library	1	2011	4	2016
Perform Base Array Designs Required to Fill GA	1	2011	4	2016
Monitor and Adjust Process Improvements	1	2011	4	2016

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 6: *Battery Network (BATTNET)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
6: *Battery Network (BATTNET)*	0.927	0.978	1.761	-	1.761	2.008	2.008	2.001	2.033	Continuing	Continuing
Quantity of RDT&E Articles											

A. 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. Batteries exhibit dynamic challenges for military logistics. BATTNET is a community of practice of battery supply chain members, engineering support activities, researchers, and users. BATTNET conducts R&D to address sustainment gaps and bridge technical solutions into higher MRLs for specific groups of batteries. For FY09, DLA received 135K Orders for 5.9M batteries at $301M Net Value, a substantial increase from FY08 ($272M) and FY07 ($221M).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: BATTNET Accomplishments/Plans	0.927	0.978	1.761
FY 2010 Accomplishments: DLA identified and developed charters for five projects totaling $1.9M submitted by BATTNET partners to achieve various program objectives. DLA analyzed supply chain data, available industry data on DMSMS, sustainment issues identified from the JDMTP's Power Sources Roadmap, and collaborated with military services to identify additional R&D requirements. DLA provided data for the 2010 NDAA Section 243, GAO assessment of Defense-wide coordination of energy storage device requirements, investments and procurements.			
FY 2011 Plans: BATTNET R&D will continue to be done through awards of identified Short Term Projects (STP) to assure the prompt and sustained availability, quality, and affordability of military 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).			
FY 2012 Plans: BATTNET R&D will continue to be performed through identification and awards of new Short Term Projects (STP).			
Accomplishments/Planned Programs Subtotals	0.927	0.978	1.761

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 6: *Battery Network (BATTNET)*

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The BATTNET R&D partners were established by contract September 2009 through a competitive Broad Area Announcement (BAA) allowing for maximum competition. Partner Contracts were based upon proposals that demonstrated knowledge, experience, and expertise in the following areas of interest: Automation, Battery Maintenance, Competition & Contracting Requirements, Diminishing Manufacturing & Supply, Lithium Battery Safety, Reducing Acquisition Costs, Shelf Life, Supply Chain Logistics, Surge/Sustainment, and Technology Transition/Insertion. The BATTNET, which includes a Government Steering Group (GSG) of power source technical experts from the military services R&D groups, is informed of general R&D requirements for supply chain improvement. The partners develop among themselves related R&D projects, which are then formally evaluated by the GSG. Selected projects are then chartered within DLA and planned for contract STP awards when funds are available.

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-3, RDT&E Project Cost Analysis: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 6: *Battery Network (BATTNET)*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Quallion LLC:Sylmar, CA	0.025	0.275	Dec 2010	0.225	Dec 2011	-		0.225	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Yardney Technical Products:Pawcatuck, CT	0.025	0.025	Dec 2010	0.025	Dec 2011	-		0.025	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	EaglePicher Technologies:Joplin, MO	0.025	0.025	Dec 2010	0.025	Dec 2011	-		0.025	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/CPFF	Eskra Technical Products:Saukville, WI	0.425	0.025	Dec 2010	0.300	Dec 2011	-		0.300	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Lockheed Martin Corporation:Grand Prairie, TX	0.025	0.025	Dec 2010	0.325	Dec 2011	-		0.325	Continuing	Continuing	Continuing
f. Manufacturing Process Support Costs	C/CPFF	Redblack Communications:Hollywood, MD	0.025	0.025	Dec 2010	0.225	Dec 2011	-		0.225	Continuing	Continuing	Continuing
g. Manufacturing Process Support Costs	C/CPFF	Saft America:Cockeysville, MD	0.025	0.275	Dec 2010	0.225	Dec 2011	-		0.225	Continuing	Continuing	Continuing
h. Manufacturing Process Support Costs	C/CPFF	Spectrum Brands:Madison, WI	0.025	0.025	Dec 2010	0.025	Dec 2011	-		0.025	Continuing	Continuing	Continuing
i. Manufacturing Process Support Costs	C/CPFF	Innovative Battery Consulting:Southport, NC	0.025	0.025	Dec 2010	0.125	Dec 2011	-		0.125	Continuing	Continuing	Continuing
j. Manufacturing Process Support Costs	C/CPFF	Alion Science & Technology:Rome, NY	0.356	0.253	Dec 2010	0.261	Dec 2011	-		0.261	Continuing	Continuing	Continuing
		Subtotal	0.981	0.978		1.761		-		1.761			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.981	0.978		1.761		-		1.761			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 6: *Battery Network (BATTNET)*

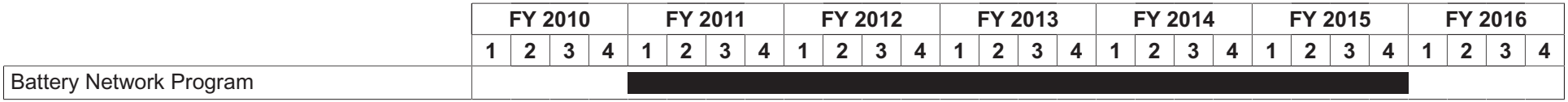

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 6: *Battery Network (BATTNET)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Battery Network Program	1	2011	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 7: *Other Congressional Adds (OCAs)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
7: *Other Congressional Adds (OCAs)*	25.865	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

DLA oversees the management of Congressional Add programs assigned to program element 0708011S, Industrial Preparedness.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: Copper Based Casting Technology Applications (CBCT) ***FY 2010 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. The program will 1) develop and test high efficiency cast copper rotor motors for land based & aerospace systems and 2) incorporate advanced material processing for motor housings, pump bodies, and other fluid handling components.	1.592	-
Congressional Add: Industrial Base Innovation Fund ***FY 2010 Accomplishments:*** On behalf of the Department of Defense. DLA has been instructed to execute the fund in coordination with the Joint Defense Manufacturing Technology Panel (JDMTP) and with the Office of the Deputy Under Secretary of Defense for Industrial Policy (ODUSD IP). The objective of the program is to ensure that investments are made to address shortfalls in manufacturing processes and technologies in support of the Department's long-term and short-term needs.	19.896	-
Congressional Add: Northwest Defense Manufacturing Initiative ***FY 2010 Accomplishments:*** Northwest Manufacturing Initiative has several thrusts. Half the funding goes toward training activities for subject matter experts (SMEs) that include lean, outreach, workforce development and capability mapping. The other half of the funding goes to Portland State University to develop and complete technology transfer in advanced welding technologies. The program will 1) develop a capability database searchable by DoD and defense prime contractors, 2) support training activities and outreach programs to ensure a capable workforce, and 3) test and develop new and innovative welding technologies and materials.	1.989	-
Congressional Add: Ultra-high Strength Steele for Landing Geer	1.592	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	PROJECT 7: *Other Congressional Adds (OCAs)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
FY 2010 Accomplishments: The objective of this program is to develop and deploy a corrosion resistant ultrahigh strength steel equal to or better than 300M and 4340 for the Department of Defense weapon system components that will reduce development time and weapon system life-cycle maintenance costs. The program will 1) use S53 corrosion resistant steel to replace the current ultrahigh strength steels used in landing gear and other structural systems and 2) produce first articles for testing at Ogden Air Logistics Center.		
Congressional Add: Vet-Biz Initiative for National Sustainment (VINS) ***FY 2010 Accomplishments:*** The objective of this program is to provide strategic consulting and hands on training to help Service Disabled Veteran Owned Business (SDVOSB). The program is expected to 1) increase supplier/manufacturing base and 2) reduce production lead time (PLT) for original equipment manufacturers (OEMs) that supply DLA and DoD.	0.796	-
Congressional Adds Subtotals	25.865	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Logistics Agency										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0708012S: *Logistics Support Activities (LSA)*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	2.779	2.813	2.466	-	2.466	2.879	2.926	2.975	3.026	Continuing	Continuing
1: *Logistics Support Activities (LSA)*	2.779	2.813	2.466	-	2.466	2.879	2.926	2.975	3.026	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program is reported in accordance with the Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	2.794	2.813	2.857	-	2.857
Current President's Budget	2.779	2.813	2.466	-	2.466
Total Adjustments	-0.015	-	-0.391	-	-0.391
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY 2010 Congressional General Reductions	-0.015	-	-	-	-
• FY 2012 Departmental Fiscal Guidance	-	-	-0.384	-	-0.384
• FY 2012 Defense Efficiency - Service Support Contractors	-	-	-0.007	-	-0.007

Change Summary Explanation

FY 2010 Congressional General Reductions: $ .015M

FY 2012 Departmental Fiscal Guidance Reductions: $.391M

FY 2012 Defense Efficiency - Service Support Contractors Reduction: $ .007M

Exhibit R-2A, RDT&E Project Justification: PB 2012 Defense Logistics Agency			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708012S: *Logistics Support Activities (LSA)*	PROJECT 1: *Logistics Support Activities (LSA)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: *Logistics Support Activities (LSA)*	2.779	2.813	2.466	-	2.466	2.879	2.926	2.975	3.026	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This program is reported in accordance with the Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012
Title: Logistics Support Activities	2.779	2.813	2.466
Description: This is a classified program. ***FY 2010 Accomplishments:*** This is a classified program. ***FY 2011 Plans:*** This is a classified program. ***FY 2012 Plans:*** This is a classified program.			
Accomplishments/Planned Programs Subtotals	2.779	2.813	2.466

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Perform classified logistics in accordance with direction provided by the Office of the Secretary of Defense (OSD) Special Access Programs Coordination Office (SAPCO). Program oversight provided by OSD SAPCO.