Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Logistics Agency											DATE: April 2013	
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)	**All Prior Years**	**FY 2012**	**FY 2013#**	**FY 2014 Base**	**FY 2014 OCO ##**	**FY 2014 Total**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**Cost To Complete**	**Total Cost**
Total Program Element	21.123	22.478	27.044	24.691	-	24.691	25.021	25.421	25.848	26.320	Continuing	Continuing
1: *Combat Rations (CORANET)*	1.868	1.401	2.047	2.089	-	2.089	2.122	2.157	2.194	2.234	Continuing	Continuing
2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*	4.091	3.108	4.488	4.488	-	4.488	4.526	4.603	4.682	4.768	Continuing	Continuing
3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*	2.522	2.313	2.728	2.784	-	2.784	2.830	2.877	2.926	2.979	Continuing	Continuing
4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*	1.188	1.100	1.308	1.335	-	1.335	1.358	1.380	1.403	1.429	Continuing	Continuing
5: *Material Acquisition Electronics (MAE)*	10.507	12.834	14.465	11.987	-	11.987	12.184	12.371	12.575	12.804	Continuing	Continuing
6: *Battery Network (BATTNET)*	0.947	1.722	2.008	2.008	-	2.008	2.001	2.033	2.068	2.106	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

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 2014 Defense Logistics Agency					DATE: April 2013
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 2012**	**FY 2013**	**FY 2014 Base**	**FY 2014 OCO**	**FY 2014 Total**
Previous President's Budget	22.498	27.044	24.781	-	24.781
Current President's Budget	22.478	27.044	24.691	-	24.691
Total Adjustments	-0.020	0.000	-0.090	-	-0.090
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY2014 Departmental Fiscal Guidance	-0.020	0.000	-0.090	-	-0.090

Change Summary Explanation

FY2012 FFRDC(f) Reduction: -$0.062 million

FY2012 SBIR/STTR Transfer (Reduction): -$0.543 million

FY2013 Secretary of Defense Initiatives: $0.282 million

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
1: *Combat Rations (CORANET)*	1.868	1.401	2.047	2.089	-	2.089	2.122	2.157	2.194	2.234	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

In FY 2010, DLA Troop Support Subsistence sold $4.7 billion in subsistence goods and services to the Department of Defense and other customers. The Rations portion of this business was $702M in FY 2010. The Combat Rations R&D funding request is .002% of sales. 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, optimum sizing for transportation and storage; 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 the producers, military Services, Army Natick Soldier Research Development and Engineering 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 2012	FY 2013	FY 2014
Title: Combat Rations Accomplishments/Plans	1.401	2.047	2.089
FY 2012 Accomplishments: Completed Short Term Project (STP) 3011 on “Time Temperature Indicator Data Analysis for MRE components” with recommendations on food quality improvements.			
FY 2013 Plans: Transition STPs 3009, Temperature Sensitivity of Frozen Foods; 3012, Knurled Seat Bar Implementation; 3013, Test Methodology Directional Tear; and 3014, Non-destructive Test for Measuring Tray Compressibility. Develop new Short Term Projects for MRE Menu Bag Assembly Line Automation, Process Validation projects for tray pack food, institutional-sized and individual-sized packages using Microwave Assisted Thermal Sterilization (MATS); and energy conservation for manufacturing.			
FY 2014 Plans: Transition STP 3008, Improved Thermal Processing of Foods Sealed in Polymeric Trays; and 3015, Continuous Retort Processing.			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Develop new Short Term Projects for MRE Menu Bag Assembly Line Automation, Process Validation projects for tray pack food, institutional-sized and individual-sized packages using Microwave Assisted Thermal Sterilization (MATS); and focus on energy conservation for manufacturing.			
Accomplishments/Planned Programs Subtotals	1.401	2.047	2.089

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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 2014 Defense Logistics Agency			DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Clemson University:Clemson, South Carolina	0.030	0.000	Dec 2011	0.010	Dec 2012	0.010	Dec 2013	-		0.010	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Dairy Management Incorporated:Des Plaines, Illinois	0.030	0.000	Dec 2011	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Master Packaging:Tampa, Florida	0.030	0.000	Dec 2011	0.010	Dec 2012	0.010	Dec 2013	-		0.010	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/CPFF	Michigan State University:East Lansing, Michigan	0.462	0.000	Dec 2011	0.100	Dec 2012	0.010	Dec 2013	-		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	3.317	0.425	Dec 2011	0.500	Dec 2012	0.500	Dec 2013	-		0.500	Continuing	Continuing	Continuing
f. Manufacturing Process Support Costs	C/CPFF	SOPAKO, Incorporated:Mullins, South Carolina	0.213	0.000	Dec 2011	0.050	Dec 2012	0.050	Dec 2013	-		0.050	Continuing	Continuing	Continuing
g. Manufacturing Process Support Costs	C/CPFF	University of Illinois:Urbana, Illinois	0.095	0.106	Dec 2011	0.137	Dec 2012	0.100	Dec 2013	-		0.100	Continuing	Continuing	Continuing
h. Manufacturing Process Support Costs	C/CPFF	University of Tennessee:Knoxville, Tennessee	1.084	0.082	Dec 2011	0.200	Dec 2012	0.200	Dec 2013	-		0.200	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	1.476	0.022	Dec 2011	0.400	Dec 2012	0.200	Dec 2013	-		0.200	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Logistics Agency			DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
j. Manufacturing Process Support Costs	C/CPFF	Cadillac Products Incorporated:Troy, Michigan	0.075	0.020	Dec 2011	0.010	Dec 2012	0.010	Dec 2013	-		0.010	Continuing	Continuing	Continuing
k. Manufacturing Process Support Costs	C/CPFF	Ohio State University Research Foundation:Columbus, Ohio	0.045	0.000	Dec 2011	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
l. Manufacturing Process Support Costs	C/CPFF	Oregon Freeze Dry Incorporated:Albany, Oregon	0.045	0.000	Dec 2010	0.010	Dec 2012	0.010	Dec 2013	-		0.010	Continuing	Continuing	Continuing
m. Manufacturing Process Support Costs	C/CPFF	Research and Development Associates:San Antonio, Texas	0.333	0.000	Dec 2011	0.010	Dec 2012	0.150	Dec 2013	-		0.150	Continuing	Continuing	Continuing
n. Manufacturing Process Support Costs	C/CPFF	Sterling Foods, Limited:San Antonio, Texas	0.045	0.000	Dec 2011	0.010	Dec 2012	0.010	Dec 2013	-		0.010	Continuing	Continuing	Continuing
o. Manufacturing Process Support Costs	C/CPFF	Virginia Polytechnic Institute and State University:Blacksburg, Virginia	0.317	0.000	Dec 2011	0.100	Dec 2012	0.100	Dec 2013	-		0.100	Continuing	Continuing	Continuing
p. Manufacturing Process Support Costs	C/CPFF	Washington State Universtiy:Pullman, Washington	0.151	0.000	Dec 2011	0.300	Dec 2012	0.104	Dec 2013	-		0.104	Continuing	Continuing	Continuing
q. Manufacturing Process Support Costs	C/CPFF	Logistics Management Institute:McLean, Virginia	0.179	0.000	Dec 2011	0.075	Dec 2012	0.000		-		0.000	Continuing	Continuing	Continuing
r. Manufacturing Process Support Costs	C/CPFF	Ameriqual, Inc.:Evansville, Indiana	0.030	0.000	Dec 2011	0.050	Dec 2012	0.050	Dec 2013	-		0.050	Continuing	Continuing	
s. Manufacturing Process Support Costs	C/CPFF	Wornick:McAllen, Texas	0.090	0.413	Dec 2011	0.050	Dec 2012	0.050	Dec 2013	-		0.050	Continuing	Continuing	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Logistics Agency			DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
s. Manufacturing Process Support Costs	C/CPFF	Impact Associates:Knoxville, TN	0.025	0.028	Apr 2012	0.025	Dec 2012	0.025	Dec 2013	-		0.025	Continuing	Continuing	
a. Manufacturing Process Support Costs	C/CPFF	Booz Allen Hamilton:McLean, VA	-	0.305	Mar 2012	-		0.500	Dec 2013	-		0.500	Continuing	Continuing	
		Subtotal	8.072	1.401		2.047		2.089		0.000		2.089			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.072	1.401		2.047		2.089		0.000		2.089			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

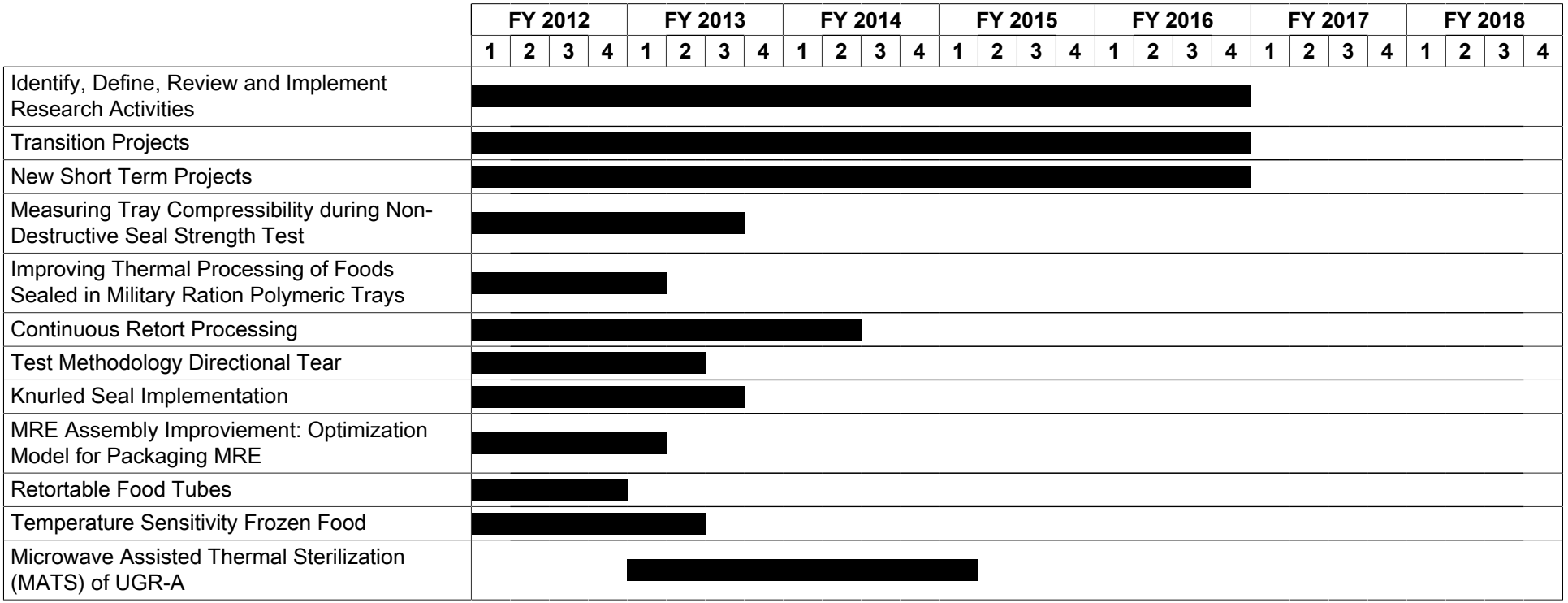

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 1: *Combat Rations (CORANET)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Identify, Define, Review and Implement Research Activities	1	2012	4	2016
Transition Projects	1	2012	4	2016
New Short Term Projects	1	2012	4	2016
Measuring Tray Compressibility during Non-Destructive Seal Strength Test	1	2012	3	2013
Improving Thermal Processing of Foods Sealed in Military Ration Polymeric Trays	1	2012	1	2013
Continuous Retort Processing	1	2012	2	2014
Test Methodology Directional Tear	1	2012	2	2013
Knurled Seal Implementation	1	2012	3	2013
MRE Assembly Improviement: Optimization Model for Packaging MRE	1	2012	1	2013
Retortable Food Tubes	1	2012	4	2012
Temperature Sensitivity Frozen Food	1	2012	2	2013
Microwave Assisted Thermal Sterilization (MATS) of UGR-A	1	2013	1	2015

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2: *Customer Driven Uniform Manufacturing (CDUM) (Previously called Apparel Research Network)*	4.091	3.108	4.488	4.488	-	4.488	4.526	4.603	4.682	4.768	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The Department of Defense, through the Defense Logistics Agency, purchased $2.1 billion of clothing and textile items in FY 2010. 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 2012	FY 2013	FY 2014
Title: Customer Driven Uniform Manufacturing Accomplishments/Plans	3.108	4.488	4.488
FY 2012 Accomplishments: RFID Item Level Technology Phase 2 and Transition; Product Life Cycle Management Technical Data Package.			
FY 2013 Plans: CDUM II will continue the TDP project to address gaps in product specifications by developing a flexible environment that integrates multiple input and output formats to improve management, configuration control and communication between the Government and Defense Industrial Base manufacturers. Technical initiatives include developing a semantic data driven product data environment. Data mining will be adapted to populate the data models. The primary benefit will be a significant reduction in TDP errors and improved data access by the multiple tiers of industrial base. In addition, the technology facilitates communication among the Service Design Agencies, the Industrial Base and DLA Troop Support-Clothing and Textiles.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
CDUM II will continue the TDP project as well as the pilot sites at Lackland AFB and Great Lakes Naval Training Center. CDUM II will transition prototype implementations. CDUM III initiatives will be developed.			
Accomplishments/Planned Programs Subtotals	3.108	4.488	4.488

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 2014 Defense Logistics Agency		DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 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	8.400	0.000	Jan 2011	0.550	Jan 2013	-		-		-	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	AdvanTech:Annapolis, Maryland	6.567	1.341	Jan 2011	1.845	Jan 2013	1.910	Jan 2014	-		1.910	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	Human Solutions NA, Incorporated:Dearborn, Michigan	0.750	0.477	Jan 2012	0.550	Jan 2013	0.578	Jan 2014	-		0.578	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/BPA	Logistics Management Institute:McLean, Virginia	3.920	1.290	Jan 2011	1.543	Aug 2012	2.000	Aug 2013	-		2.000	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Atlantic Diving Supply:Virginia Beach, VA	0.129	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	19.766	3.108		4.488		4.488		0.000		4.488			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	19.766	3.108		4.488		4.488		0.000		4.488			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

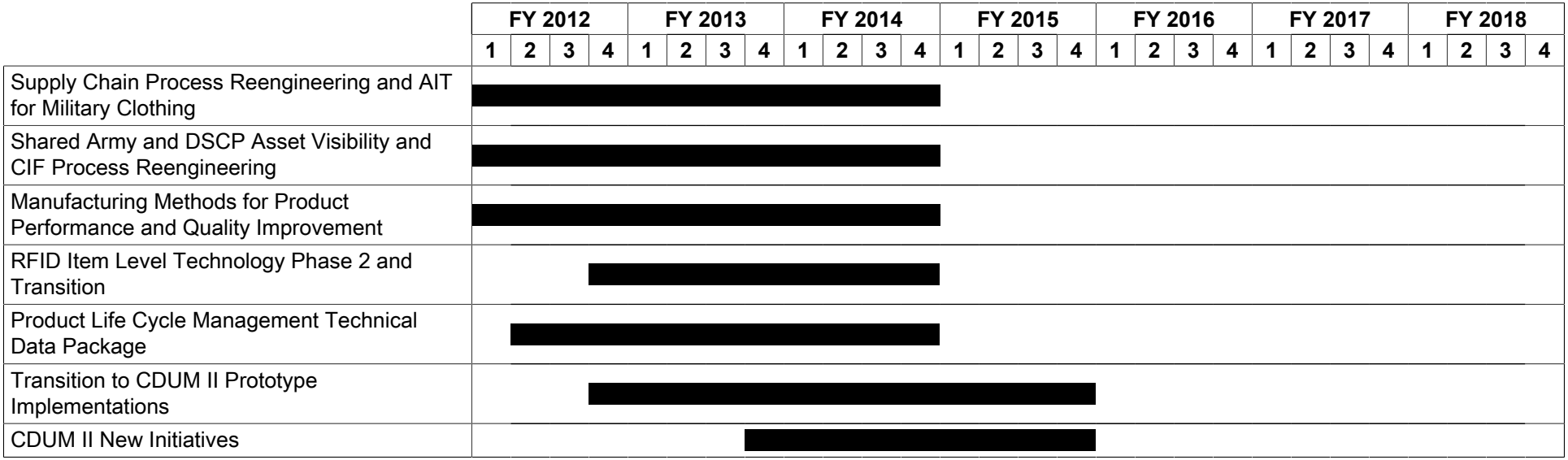

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (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	2012	4	2014
Shared Army and DSCP Asset Visibility and CIF Process Reengineering	1	2012	4	2014
Manufacturing Methods for Product Performance and Quality Improvement	1	2012	4	2014
RFID Item Level Technology Phase 2 and Transition	4	2012	4	2014
Product Life Cycle Management Technical Data Package	2	2012	4	2014
Transition to CDUM II Prototype Implementations	4	2012	4	2015
CDUM II New Initiatives	4	2013	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*	2.522	2.313	2.728	2.784	-	2.784	2.830	2.877	2.926	2.979	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

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 technologies and processes to improve the procurement, manufacture, and design of weapon system spare parts that 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 2012	FY 2013	FY 2014
Title: Procurement Readiness Optimization-Advanced Casting Technology Accomplishments/Plans	2.313	2.728	2.784
FY 2012 Accomplishments: New casting task order contracts were awarded for new the projects, period of performance over 60 months. Kick off meeting and JDMTP metals subpanel review was held 24-25 July 2012.			
FY 2013 Plans: Continue development of the new projects under the three major R&D initiatives for castings: 1) improved castings inspection methods such as Digital Radiography for magnesium & copper based castings; 2) improved casting materials & processes such as rapid tooling & prototyping using on demand melting and lightweight high strength cast alloys process; additive manufacturing of airfoil investment casting cores by ceramic stereolithography; and 3) process modeling for lube-free die casting, steel casting performance and refinement of cast part performance in the presence of discontinuities. Conduct technical review in conjunction with the annual JDMTP Metals Subpanel review of all ManTech projects.			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Continue work on projects reviewing progress. Conduct technical review in conjunction with the annual JDMTP Metals Subpanel review of all ManTech projects.			
Accomplishments/Planned Programs Subtotals	2.313	2.728	2.784

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Awarded two base task order contracts competitively through a Broad Agency Announcement (BAA). Task order contracts for projects have also been awarded.

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 2014 Defense Logistics Agency		DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 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	10.713	2.013	Mar 2012	2.428	Feb 2013	2.384	Mar 2014	-		2.384	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Honeywell International Inc.:Phoenix, Arizona	0.007	0.300	Mar 2012	0.300	Feb 2013	0.400	Mar 2014	-		0.400	Continuing	Continuing	Continuing
		Subtotal	10.720	2.313		2.728		2.784		0.000		2.784			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	10.720	2.313		2.728		2.784		0.000		2.784			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

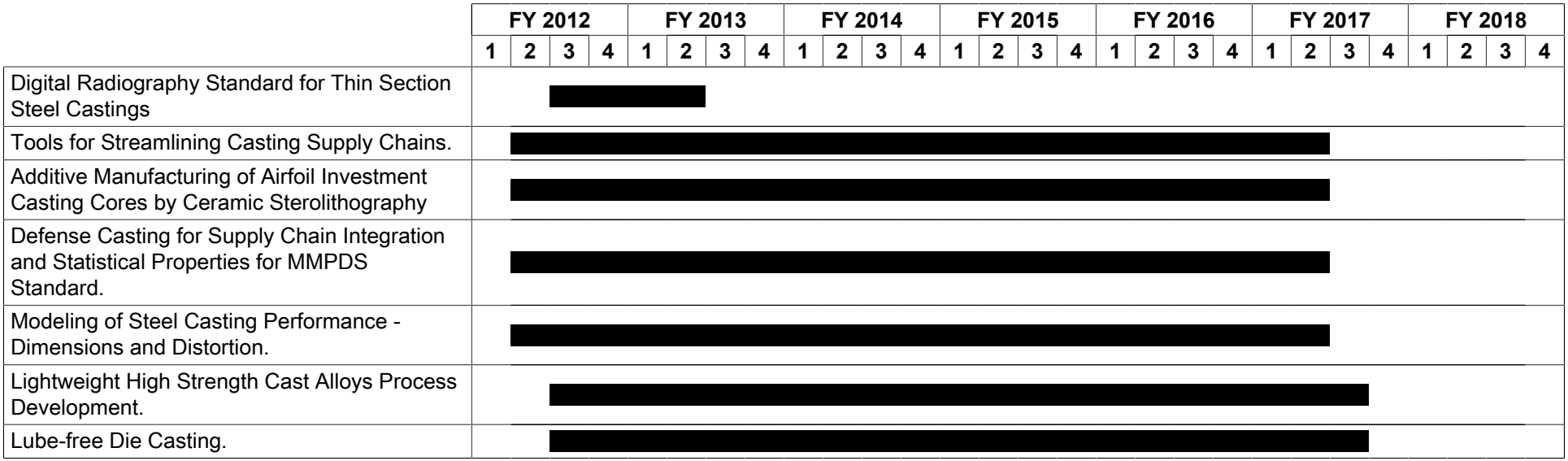

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 3: *Procurement Readiness Optimization-Advanced System Technology (PRO-ACT)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Digital Radiography Standard for Thin Section Steel Castings	3	2012	2	2013
Tools for Streamlining Casting Supply Chains.	2	2012	2	2017
Additive Manufacturing of Airfoil Investment Casting Cores by Ceramic Sterolithography	2	2012	2	2017
Defense Casting for Supply Chain Integration and Statistical Properties for MMPDS Standard.	2	2012	2	2017
Modeling of Steel Casting Performance - Dimensions and Distortion.	2	2012	2	2017
Lightweight High Strength Cast Alloys Process Development.	3	2012	3	2017
Lube-free Die Casting.	3	2012	3	2017

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
4: *Procurement Readiness Optimization-Forging Advanced System Technology (PRO-FAST)*	1.188	1.100	1.308	1.335	-	1.335	1.358	1.380	1.403	1.429	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

Weapon system spare parts that use forgings are responsible for a disproportionate share of DLA backorders. Forged 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 forgings. 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 2012	FY 2013	FY 2014
Title: Procurement Readiness Optimization-Forging Advanced System Technology Accomplishments/Plans	1.100	1.308	1.335
FY 2012 Accomplishments: 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. Initiate procurement action for next program.			
FY 2013 Plans: Finalize projects under current initiative, such as software for lean six sigma process improvements at forges; deploy multi-material, multi-method evaluation tool. Also, finalize and award new contract for next tasks and projects. Conduct technical review in conjunction with the annual JDMTP Metals Subpanel review of all ManTech projects.			
FY 2014 Plans: Continue work on projects reviewing progress. Conduct technical review in conjunction with the annual JDMTP Metals Subpanel review of all ManTech projects.			
Accomplishments/Planned Programs Subtotals	1.100	1.308	1.335

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

A Broad Agency Announcement (BAA) is planned.

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 2014 Defense Logistics Agency			DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 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	5.729	1.100	Jan 2012	1.308	Feb 2013	1.335	Mar 2014	-		1.335	Continuing	Continuing	Continuing
		Subtotal	5.729	1.100		1.308		1.335		0.000		1.335			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.729	1.100		1.308		1.335		0.000		1.335			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

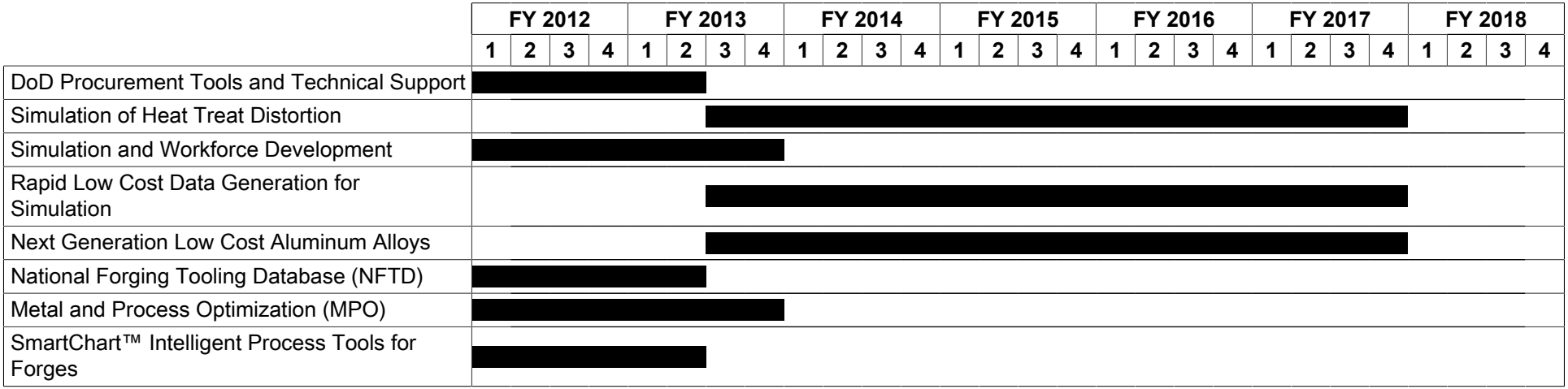

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (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	2012	2	2013
Simulation of Heat Treat Distortion	3	2013	4	2017
Simulation and Workforce Development	1	2012	4	2013
Rapid Low Cost Data Generation for Simulation	3	2013	4	2017
Next Generation Low Cost Aluminum Alloys	3	2013	4	2017
National Forging Tooling Database (NFTD)	1	2012	2	2013
Metal and Process Optimization (MPO)	1	2012	4	2013
SmartChart™ Intelligent Process Tools for Forges	1	2012	2	2013

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
5: *Material Acquisition Electronics (MAE)*	10.507	12.834	14.465	11.987	-	11.987	12.184	12.371	12.575	12.804	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

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 2012	FY 2013	FY 2014
Title: Material Acquisition Electronics Accomplishments/Plans	12.834	14.465	11.987
FY 2012 Accomplishments: MAE has transitioned fully-developed and verified 800 nanometer Emulation production capabilities, ranging to 200,000 gates, to DLA Land and Maritime for full-scale production of previously non-procurable ICs. It also transitioned a fully-developed and verified high speed emitter-coupled logic production capability to source critical high demand NSNs lacking supply. MAE has formulated device family targets for a Linear Emulation thrust. It initiated a 250 nanometer Emulation fabrication process (High Performance (speed) and Density) development providing additional FSC 5962 coverage. It continued 350 nanometer Emulation fabrication process development, bringing new capabilities to the Customers and Agency. It incorporated Integrated Circuit Characterization tool advancements into the Emulation flow, enabling supply for non-procurables. The tool also provided a value-added capability for our Customers' technical data packages. MAE implemented microcircuit DNA marking to assure traceability / trust in the supply chain.			
FY 2013 Plans: MAE will initiate specific process, design, and test verification developments in its new Linear Emulation thrust, augmenting our span of FSC 5962. MAE will transition additional Advanced CMOS Digital Microcircuit Emulation capability into full-scale production increasing DLA's ability to re-establish sourcing of non-procurable microcircuit NSNs. MAE will also transition higher density Read-Only and Random-Access Memory Emulation capability into full-scale production further increasing DLA's ability			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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 2012	FY 2013	FY 2014
to re-establish sourcing of non-procurable microcircuit NSNs. The newly transitioned Emulation capabilities will address several discontinued device families and will increase the potential Emulation production envelope by several hundred NSNs. MAE will continue 350 and 250 nanometer Emulation fabrication process development, bringing new capabilities to the Customers and Agency. ***FY 2014 Plans:*** MAE will continue specific process, design, and test verification developments in its Linear Emulation thrust. It will continue planning for the specific Emulation technology implementations to support specific device family groups in consonance with Customer and Agency requirements. It will prototype 350 nanometer Emulation circuitry, bringing Emulation capability that re-establishes sources for additional NSNs. It will continue 250 nanometer Emulation fabrication process development providing additional FSC 5962 coverage in its Digital Emulation thrust.			
Accomplishments/Planned Programs Subtotals	12.834	14.465	11.987

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 2014 Defense Logistics Agency		DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	SRI International:Princeton, New Jersey	50.366	12.834	Oct 2012	14.465	Oct 2012	11.987	Oct 2013	-		11.987	Continuing	Continuing	Continuing
		Subtotal	50.366	12.834		14.465		11.987		0.000		11.987			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	50.366	12.834		14.465		11.987		0.000		11.987			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

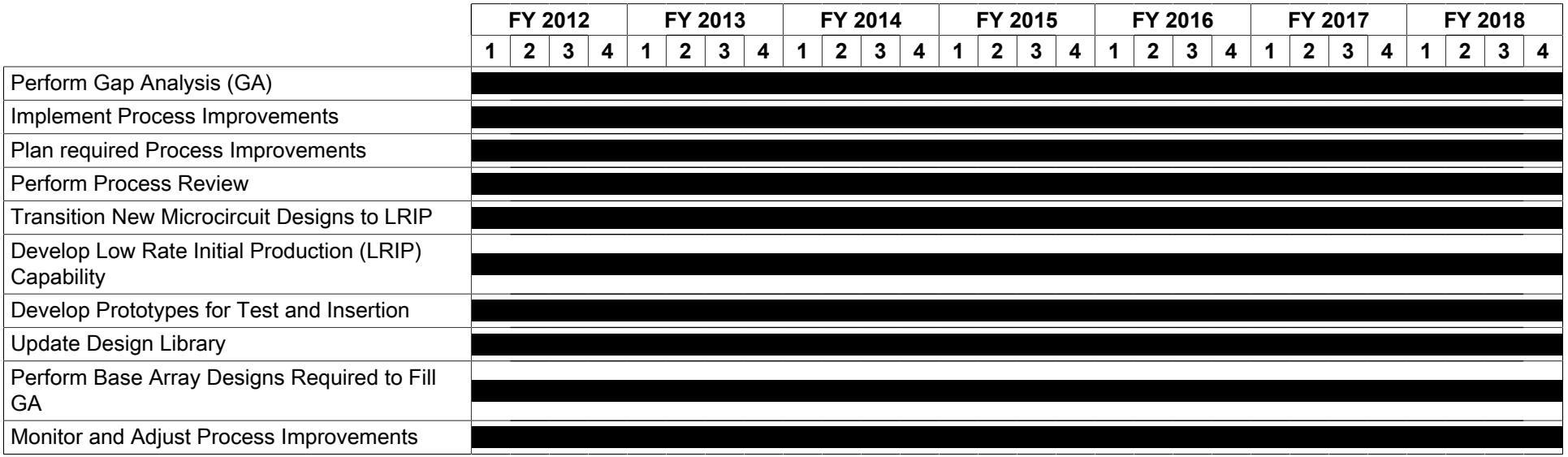

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 5: *Material Acquisition Electronics (MAE)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Perform Gap Analysis (GA)	1	2012	4	2018
Implement Process Improvements	1	2012	4	2018
Plan required Process Improvements	1	2012	4	2018
Perform Process Review	1	2012	4	2018
Transition New Microcircuit Designs to LRIP	1	2012	4	2018
Develop Low Rate Initial Production (LRIP) Capability	1	2012	4	2018
Develop Prototypes for Test and Insertion	1	2012	4	2018
Update Design Library	1	2012	4	2018
Perform Base Array Designs Required to Fill GA	1	2012	4	2018
Monitor and Adjust Process Improvements	1	2012	4	2018

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency			DATE: April 2013
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)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
6: *Battery Network (BATTNET)*	0.947	1.722	2.008	2.008	-	2.008	2.001	2.033	2.068	2.106	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

BATTNET is focused on improving the supply and reducing the cost of procured 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 FY11, DLA received 143K orders for 3.6M batteries at $238M Net Value compared to FY10 ($237M) and FY09 ($254M).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: BATTNET Accomplishments/Plans	1.722	2.008	2.008
FY 2012 Accomplishments: BATTNET successfully developed initial capabilities in (1)a low cost, electrostatic process for electrode production that eliminates the use of hazardous chemicals and associated capital equipment, (2)standard module designs for several emerging lithium-ion batteries for aircraft, ground vehicle, underwater vehicle, and soldier weapon systems, and (3)progress on new production capability for higher performance soldier batteries using hybrid Li-CFx. Coordinated and partially funding initial selections from a new Advanced Battery Manufacturing topic with DLA's Small Business Innovation Research (SBIR) program. BATTNET contracts are also being used for two battery manufacturing development projects selected by the Industrial Base Innovation Fund.			
FY 2013 Plans: BATTNET has identified several Short Term Projects: Expanding low cost electrode production capabilities, additional production capabilities in higher performance soldier batteries, and innovative manufacturing methods for low cost battery materials. A new BAA will be issued to refresh the partnerships in BATTNET R&D.			
FY 2014 Plans: R&D will continue to be performed through identification and awards of new Short Term Projects (STP) with an expected duration of 18-24 months and an average funding of $200K-$500K per year. STP proposals are required to include a business case			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
with specific metrics and transition plan for success. BATTNET will also pursue additional battery manufacturing advances from successful DLA SBIR projects.			
Accomplishments/Planned Programs Subtotals	1.722	2.008	2.008

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 2014 Defense Logistics Agency			DATE: April 2013
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	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
a. Manufacturing Process Support Costs	C/CPFF	Quallion LLC:Sylmar, CA	0.331	0.364	Dec 2011	0.225	Dec 2012	0.225	Dec 2013	-		0.225	Continuing	Continuing	Continuing
b. Manufacturing Process Support Costs	C/CPFF	Yardney Technical Products:Pawcatuck, CT	0.050	0.025	Dec 2011	0.025	Dec 2012	0.025	Dec 2013	-		0.025	Continuing	Continuing	Continuing
c. Manufacturing Process Support Costs	C/CPFF	EaglePicher Technologies:Joplin, MO	0.050	0.302	Dec 2011	0.125	Dec 2012	0.100	Dec 2013	-		0.100	Continuing	Continuing	Continuing
d. Manufacturing Process Support Costs	C/CPFF	Eskra Technical Products:Saukville, WI	0.465	0.300	Dec 2011	0.300	Dec 2012	1.000	Dec 2013	-		1.000	Continuing	Continuing	Continuing
e. Manufacturing Process Support Costs	C/CPFF	Lockheed Martin Corporation:Grand Prairie, TX	0.050	0.025	Dec 2011	0.300	Dec 2012	0.025	Dec 2013	-		0.025	Continuing	Continuing	Continuing
f. Manufacturing Process Support Costs	C/CPFF	Redblack Communications:Hollywood MD	0.300	0.195	Dec 2011	0.125	Dec 2012	0.025	Dec 2013	-		0.025	Continuing	Continuing	Continuing
g. Manufacturing Process Support Costs	C/CPFF	Saft America:Cockeysville, MD	0.050	0.025	Dec 2011	0.500	Dec 2012	0.100	Dec 2013	-		0.100	Continuing	Continuing	Continuing
h. Manufacturing Process Support Costs	C/CPFF	Spectrum Brands:Madison, WI	0.025	0.025	Dec 2011	0.025	Dec 2012	0.025	Dec 2013	-		0.025	Continuing	Continuing	Continuing
i. Manufacturing Process Support Costs	C/CPFF	Innovative Battery Consulting:Southport, NC	0.075	0.125	Dec 2011	0.075	Dec 2012	0.175	Dec 2013	-		0.175	Continuing	Continuing	Continuing
j. Manufacturing Process Support Costs	C/CPFF	Alion Science & Technology:Rome, NY	0.513	0.228	Dec 2011	0.308	Dec 2012	0.308	Dec 2013	-		0.308	Continuing	Continuing	Continuing
k. Manufacturing Process Support Costs	C/FP	Logistics Management Institute (LMI):McLean, VA	0.050	0.108	Dec 2011	0.000		-		-		-	Continuing	Continuing	
		Subtotal	1.959	1.722		2.008		2.008		0.000		2.008			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Logistics Agency			DATE: April 2013
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)*	

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.959	1.722		2.008		2.008		0.000		2.008			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Logistics Agency		DATE: April 2013
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)*

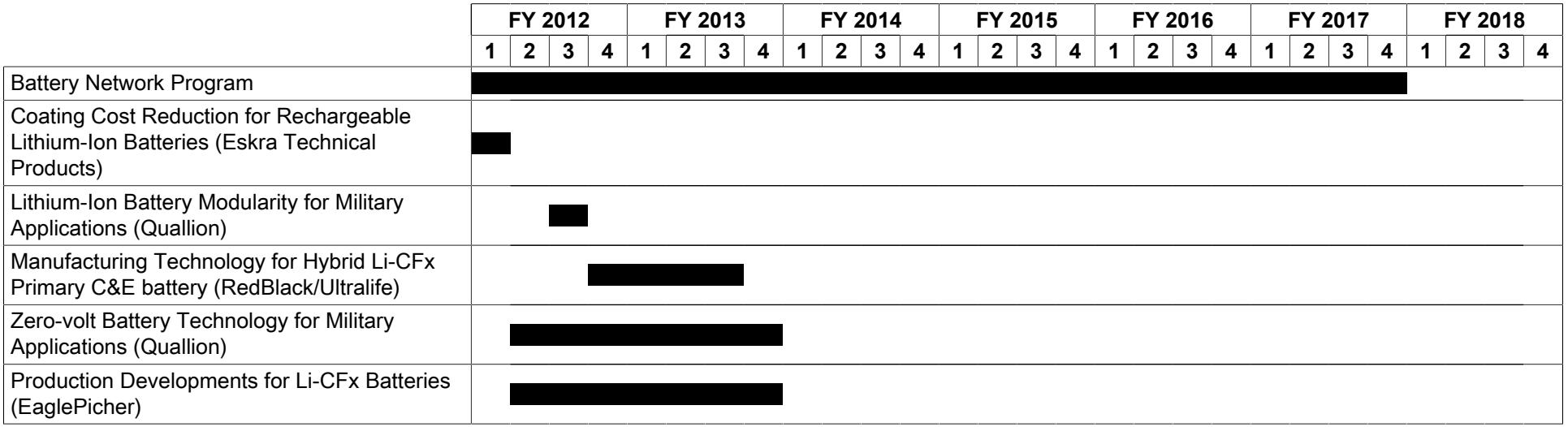

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Logistics Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708011S: *Industrial Preparedness Manufacturing Technology (IP ManTech)*	**PROJECT** 6: *Battery Network (BATTNET)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Battery Network Program	1	2012	4	2017
Coating Cost Reduction for Rechargeable Lithium-Ion Batteries (Eskra Technical Products)	1	2012	1	2012
Lithium-Ion Battery Modularity for Military Applications (Quallion)	3	2012	3	2012
Manufacturing Technology for Hybrid Li-CFx Primary C&E battery (RedBlack/Ultralife)	4	2012	3	2013
Zero-volt Battery Technology for Military Applications (Quallion)	2	2012	4	2013
Production Developments for Li-CFx Batteries (EaglePicher)	2	2012	4	2013