Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced

PE 0603747A I Soldier Support and Survivability

Component Development & Prototypes (ACD&P)

, ,	<i>31</i> (,										
COST (\$ in Millions)	Prior			FY 2016	FY 2016	FY 2016					Cost To	Total
COST (\$ III WIIIIOIIS)	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Cost
Total Program Element	-	11.513	8.997	6.258	1.500	7.758	13.528	13.211	11.000	11.178	Continuing	Continuing
610: Food Adv Development	-	5.013	3.480	0.021	-	0.021	5.598	6.803	5.043	4.713	Continuing	Continuing
C08: Rapid Equipping Force	-	6.500	5.517	5.957	1.500	7.457	5.956	5.956	5.957	5.956	Continuing	Continuing
EL1: Army Field Feeding Programs	-	-	-	0.280	-	0.280	1.974	0.452	-	0.509	-	3.215

Note

Note: FY 2013 Previous President's Budget (FY 2014) amount shown in B. Program Change Summary is an electronic error and should be \$10,073.

A. Mission Description and Budget Item Justification

This program element supports component development and prototyping for organizational equipment, improved individual clothing and equipment that enhance Soldier battlefield effectiveness, survivability, and sustainment. This program element also supports the component development and prototyping of joint service food and combat feeding equipment designed to reduce logistics burden.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	11.685	9.602	10.582	-	10.582
Current President's Budget	11.513	8.997	6.258	1.500	7.758
Total Adjustments	-0.172	-0.605	-4.324	1.500	-2.824
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
 SBIR/STTR Transfer 	-	-			
 Adjustments to Budget Years 	-0.172	-0.605	-4.324	1.500	-2.824

PE 0603747A: Soldier Support and Survivability

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
						ect (Number/Name) I Food Adv Development						
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
610: Food Adv Development	-	5.013	3.480	0.021	-	0.021	5.598	6.803	5.043	4.713	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	_	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for the advanced component development and prototyping of joint service food and combat feeding equipment designed to reduce the logistics burden and Operation and Support (O&S) costs of subsistence support to service personnel. Project supports development of rations and rapidly deployable field food service equipment. Project conducts demonstration and validation of improved subsistence and subsistence support items used to enhance soldier effectiveness and quality of life in all four Services, as part of an integrated Department of Defense (DoD) Food Research, Development, Test, Evaluation and Engineering Program. The Program is reviewed and validated twice annually by the DoD Combat Feeding Research and Engineering Board (CFREB) as part of the Joint Service Food Program. This project develops critical enablers that support the Joint Future Force Capabilities and the Joint expeditionary mindset by maintaining readiness through fielding and integrating new equipment. This equipment enhances the field soldier's well-being and provides the soldier with usable equipment, in addition to reducing sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, combat zone footprint, and costs for logistical support.

This PE/Project supports Field Feeding Programs for all the services.

B. Accomplishments/Planned Programs (\$ in Millions)

D. Accomplianmentari larinea i rogiama (# in miliona)			1 1 2010	1 1 2010	1 1 2010	
	FY 2014	FY 2015	Base	oco	Total	
Title: Fielded Individual Ration Improvement Project (FIRIP)	0.862	0.600	-	-	-	
Description: Continuous product improvement project for the Meal, Ready to Eat (MRE)						
FY 2014 Accomplishments: Continued to conduct in-house product development of food components and identify suitable Commercial Off The Shelf/Non-Developmental Item (COTS/NDI) candidate items for fielded individual operational rations (e.g., Meal, Ready-to-Eat 2016 date of pack (DOP)) to enhance Warfighter acceptability, increase consumption and improve nutritional intake. Conducted pilot scale in-house production to support engineering design, technology insertion, and commercial producibility. Developed, integrated and validated state-of-the-art science and technology, food processing and primary/secondary packaging innovations into individual ration platforms to increase operational effectiveness. Optimized food component processing and packaging to introduce targeted items/capabilities into individual ration platforms for enhanced acceptability, nutrition and performance. Transitioned to 6.5 for testing. FY 2015 Plans:						

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PE 0603747A: Soldier Support and Survivability

FY 2016 | FY 2016 | FY 2016

Appropriation/Budget Activity 2040 / 4 R-1 Program Element (Number PE 0603747A / Soldier Support	r/Name)	_		•	
Survivability			(Number/Name) ood Adv Development		
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Continue to conduct in-house product development of food components and identify suitable COTS/NDI candidate items for fielded individual operational rations (e.g. MRE™ 2018 date of pack) to enhance Warfighter acceptability, increase consumption and improve nutritional intake; conduct pilot scale in-house production to support engineering design, technology insertion, and commercial producibility; develop, integrate and validate state-of-the art science and technology, food processing and primary/secondary packaging innovations into individual ration platforms to increase operational effectiveness; optimize food component processing and packaging to introduce targeted items/capabilities into individual ration platforms for enhanced acceptability, nutrition and performance; transition to 6.5 for testing.					
Title: Assault/Special Purpose Ration Improvement Project (ASPIP)	0.413	0.130	-	-	-
Description: Continuous product improvement of special purpose rations by the insertion of new technologies i nutrition, processing and packaging.	n				
FY 2014 Accomplishments: Continued to identify COTS/NDI components for the Meal, Cold Weather/Long Range Patrol and First Strike Ration (FSR) to enhance acceptability, variety, consumption and nutritional value of combat rations. Identified new components based upon user feedback, focus groups, emerging products and technologies and user requirements. Conducted accelerated and long term storage studies on candidate components. Worked with industry partners to facilitate producibility and technology transition. Transitioned to 6.5 for Warfighter testing.					
FY 2015 Plans: Based on user feedback, focus groups, emerging products and technologies and user requirements, identify COTS/NDI components for the Meal, Cold Weather/Long Range Patrol, First Strike Ration and Modular Operational Ration Enhancement to enhance acceptability, variety, consumption and nutritional value of scenario-specific combat rations. Conduct accelerated and long term storage studies on candidate components Work with industry partners to facilitate producibility and technology transition.					
Title: Fielded Group Ration Improvement Project (FGRIP)	0.814	0.208	-	-	-
Description: Continuous product improvement project to continuously update/improve group ration components menus, and packaging by integrating state-of-the-art military/commercial packaging and technology base transitions.	5,				
FY 2014 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: Febr	uary 2015	
2040 / 4 PE	-1 Program Element (Number/l E 0603747A <i>l Soldier Support ar</i> urvivability					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Continued efforts to update/improve components, menus and packaging to increas nutritional intake of the family of Unitized Group Rations (UGRs) for UGR-A (FY15 (2015/16 DOP). Identified COTS/NDIs and/or developed new food components intesting, down-selected items and developed test menus for Warfighter evaluation. validated state-of-the-art science and technology, food processing and primary/sec into group ration platforms to increase operational effectiveness, functionality and to 6.5 for Warfighter testing.	5 menus), B, E and H&S -house, conducted in-house Developed, integrated and condary packaging innovations					
FY 2015 Plans: Continue efforts to update/improve components, menus and packaging to increase nutritional intake of the family of UGRs for UGR-A (FY17 menus), B, M, E and H&COTS/NDIs and/or develop new food components in-house, conduct in-house test and develop test menus for Warfighter evaluation. Develop, integrate and validate and technology, food processing and primary/secondary packaging innovations in increase operational effectiveness, functionality and improve logistics. Transition to	S (2016 DOP). Identify ting, down-select items state-of-the-art science to group ration platforms to					
Title: US Navy Standard Core Menu (NSCM) Continuous Product Improvement P	roject	0.220	0.160	-	_	-
Description: Provide recommendations for upgrading/improving Navy Standard C introducing new preparation techniques to enhance menu acceptance and effective requirements.						
FY 2014 Accomplishments: Continued to identify and validate COTS and NDI candidate enhancements to the recommendations for improving menu components by introducing new commercia art food preparation and feeding techniques to enhance menu acceptance and recommendationed product summaries and results/recommendations to Naval Supply Systom adoption and procurement.	al items and state-of-the- duce labor requirements.					
FY 2015 Plans: Continue to identify and validate COTS/NDI candidate enhancement to the NSCM for improving menu components by introducing new commercial items and state-o feeding techniques to enhance menu acceptance and reduce labor requirements. and results/recommendations to NAVSUP for adoption and procurement.	f-the-art food preparation and					
Title: Quality Kinetics/Rapid Fielding of Ration Components		0.100	-	-	-	_

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603747A I Soldier Support and Survivability			Project (Number/Name) 610 / Food Adv Developmer		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Description: Confirm or optimize current accelerated storage protocols. Vadegradation.	lidate a predictive model for food					
FY 2014 Accomplishments: Transitioned and implemented quantitative kinetics models utilizing analytic etc) to 6.4 Assault/Special Purpose Ration Improvement Program (ASPIP) a Improvement Program (FIRIP). Integrated optimized quality kinetics models system and adjusted and optimized storage protocols and conditions using kinetics and defined and recommended guidelines for conduction accelerate to Military storage requirements. Streamlined and enhanced evaluation procomponents (entrees, sides, snacks, bakery items) that fall within guidelines model, accelerated rapid fielding of specific ration component, decreased/m for quality related issues, and enhanced development efficiency. Modified a Defense Logistics Agency - Troop Support.	and Fielded Individual Ration into current sensory evaluation analytical testing/temperature ed storage studies equivalent cess for identified new ration s specified by the quality kinetics inimized engineering support cases					
Title: Barrier Coating for Optimized Package Performance		0.140	0.080	-	-	_
Description: Provides low-cost, non-foil, high performance packaging material and future combat ration packaging systems, such as the Unitized Group R. (MRE). FY 2014 Accomplishments: Determined optimal barrier structure and scale-up to pilot-scale production of prototype packaging system for barrier and mechanical properties, and shell	ation (UGR) and Meal, Ready-to-Eat of prototype samples. Evaluated					
FY 2015 Plans: Deliver prototype entrée and non-retort MRE pouches along with performan cost analysis. Present coating technologies to milestone decision authority, Forum (JSORF) and the ration supply community for use as an alternative r	ice documentation/specifications and Joint Service Operational Ration					
Title: Integration of Selected Ration Components Using Novel Food Proces Platforms	sing Technology to Individual Ration	0.103	-	-	-	-
Description: Develop operational concept for integration of specific novel pindividual (as well as group and assault/special purpose) ration platforms. Expression producibility and package utility. Evaluate baselines for novel producibility.	stablish baselines for nutrition					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: Febr	uary 2015			
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/ PE 0603747A / Soldier Support an Survivability			(Number/Name) nod Adv Development				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total		
key performance parameters of known thermally processed ration requirements and/or revised documents for novel processed ration								
FY 2014 Accomplishments: Developed operational concept for integration of specific novel processed as group and assault/special purpose) ration platforms. Esproducibility and package utility. Evaluated baselines for novel proparameters of known thermally processed ration components.	tablished baselines for nutrition retention,							
Title: Containerized Ice Making System		0.321	0.650	-	-	-		
Description: Develop a containerized ice making system to support drinking water in extreme arid conditions and support other ice requisions going out on missions/patrols. FY 2014 Accomplishments: Received procured prototype(s) for production quality testing (PQT prototypes and modified commercially available equipment to valid user community.	uirements for those on the base camp and for at the Aberdeen Test Center. Used multiple							
FY 2015 Plans: Conduct evaluation of integrated technologies in a realistic operation commercial items, developmental prototypes and commercial industrial identified weaknesses in transportable ice bagging technologies wis system.	stry technology demonstrators. Mitigate							
Title: Co-Extruded Alternate Nutrient System (CANS)		0.157	_	-	_	_		
Description: Provide the Warfighter with functional multi-compone serve as vehicles for optimizing nutrient delivery. Develop matrices performance optimizers that are stable, functional and organoleptic performance bars utilizing co-extrusion technologies.	that are best suited to deliver nutrients/							
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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number PE 0603747A / Soldier Support a Survivability					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Finalized FDA approval of selected performance optimizers. Coordina Ration program. Validated manufacturing base and long term shelf lif base. Generated draft technical requirements.						
Title: Alternative Polymer Processing Technology (APPT)		0.100	-	-	-	-
Description: Improve ration packaging by enhancing package perfor polymer processing technologies, such as orientation, co-extrusion, a packaging weight and waste. Improve packaging performance through properties.	and layer multiplying co-extrusion. Reduce					
FY 2014 Accomplishments: Continued producibility studies. Field testing to document Warfighter Operational Rations Forum, procurement documents were modified/p in the MRE™, UGR and/or FSR.						
Title: Transition of Advanced Appliances for Field Kitchens		0.388	0.360	-	-	-
Description: Provide the Warfighter with JP-8 fueled appliances that kitchen environment, and can easily be moved into buildings when ne healthier, more comfortable kitchen environment, and equipment that meals. Existing appliances are only about 15-40% efficient; new burn efficiency, typical of stationary gas-fired equipment.	ecessary. Warfighters benefit from a safer, facilitates preparation of quality A-ration					
FY 2014 Accomplishments: Continued development, integration and test of JP-8 powered burner clear platform requirements for Battlefield Kitchen and continued test compatibility.						
FY 2015 Plans: Perform comprehensive evaluation of appliances integrated with new performance and compatibility with multiple platforms and in dismoun appliances mounted on dedicated kitchen platform to prove out comp	ted operation. Complete evaluation of					
Title: Permeability Modeling of Advanced Packaging Systems (PMAF	DC)	0.140	_	_	_	

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: February 2015					
Appropriation/Budget Activity 2040 / 4		PE 0603747A I Soldier Support and 610 I Foo			(Number/Name) od Adv Development				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total			
Description: Expand upon the current film based permeability preprediction of packaging systems. Determine the total barrier effect developed under research programs.									
FY 2014 Accomplishments: Conducted pilot-scale production runs to produce packaging films selected food items. Conducted storage study to include sensory and headspace analysis to validate model. A validation report was	and analytical testing such as water activity								
Title: Packaging Optimization with Polymeric Microspheres (POP	M)	0.100	-	-	-	-			
Description: Develop production base for polymeric films contain reduced-weight, high-performance ration packaging applications of thermal properties and cost savings. FY 2014 Accomplishments: Collaboration did occur with industrial partners (material suppliers the pilot-scale level, and to fabricate Flameless Ration Heater polymerical polymerical teams, DLA-Troop validation analyses were performed to confirm affordability.	which will provide reduced density, enhanced and converters) to produce material at uches and Meal Ready-to-Eat entree bags.								
Title: Navy Food Service Analysis Tool		0.340	0.253	_	-	-			
Description: Develop a software analysis tool for Navy Foodserv Automatically calculate all storage space factors and requirement Navy Standard Core Menu (NSCM), crew size, Naval Ship's Tech Naval Vessel Requirements Food Service Facility Design Manual Commander established endurance levels.	s for naval vessels based off the specific nical Manual 096, Weights and Stability,								
FY 2014 Accomplishments: Developed automated subsistence inventory management, tracking mobile scanning technology capability. Conducted in-house tests Advanced Individual Training (AIT) approval/certification FY 2015 Plans:									

PE 0603747A: Soldier Support and Survivability Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015					
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number PE 0603747A / Soldier Support Survivability		Project (Number/Name) 610 I Food Adv Development		•	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Coordinate and conduct shipboard user evaluations with the Navy; c certification; transition information to Navy.	omplete software Navy AIT approval/					
Title: Block Upgrades and Operational Improvements for Expedition	ary Field Feeding Equipment.	-	0.340	-	-	_
Description: Eliminate the sole sourcing of tray ration heater composition consumption through the use of non-immersive cooking technologies equipment. Increase Kitchen flexibility through appliance upgrades. of Expeditionary Field Feeding Equipment by minimizing the product produced through JP-8 combustion.	s and more efficient ware-washing To reduce the overall fuel consumption					
FY 2015 Plans: Enhance the ability of the USMC to prepare all operational rations deprocure, and evaluate candidate burners for tray ration reset; develor Ration Heater (TRH); conduct technical evaluation for heat exchange	p kit and procedures for install in Tray					
Title: Joint Inter-service Field Feeding Burner		0.251	0.143	-	-	-
Description: Develop a Joint-Service, government owned JP-8 fuel Government will control configuration, procurement, and support dec supportable supply chain in field operations.						
FY 2014 Accomplishments: Built Design Validation (DV) units using a supportable, commercial by realistic operating environment and conducted supportability validations.						
FY 2015 Plans: Use the burner baseline developed in this program to qualify accepts properly with the burner. Integrate tech data package into appliance						
Title: Defense Logistics Agency (DLA)		0.564	0.556	0.021	-	0.02
Description: Support management of the Department of Defense (I and Wide Area Workflow (WAWF) programs.	DoD) Electronic Document Access (EDA)					
FY 2014 Accomplishments:						

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 4	PE 0603747A I Soldier Support and	610 I Food Adv Development
	Survivability	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Funded DLA Document Services to support management of the DoD EDA and WAWF programs.					1 0 00.1
FY 2015 Plans: Fund DLA Document Services to support management of the DoD EDA and WAWF programs.					
FY 2016 Base Plans: Fund DLA Document Services to support management of the DoD EDA and WAWF programs.					
Accomplishments/Planned Programs Subtotals	5.013	3.480	0.021	-	0.021

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

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• RDT&E 654713.548:	1.874	3.034	1.430	-	1.430	0.961	0.550	0.652	1.319	Continuing	Continuing
Military Subsistence System											
 RDT&E 654713.EL2: Army 	-	-	0.333	-	0.333	1.505	2.058	1.778	1.138	Continuing	Continuing
Field Feeding Equipment											
 RDT&E 643747.EL1: Army 	-	-	0.280	-	0.280	1.974	0.452	-	0.509	Continuing	Continuing
Field Feeding Programs											
• OPA M65801:	22.112	10.290	9.486	-	9.486	13.150	11.850	11.030	14.967	Continuing	Continuing
Refrigerated Containers											

Remarks

D. Acquisition Strategy

Project development will transition to Engineering & Manufacturing Development and production.

E. Performance Metrics

N/A

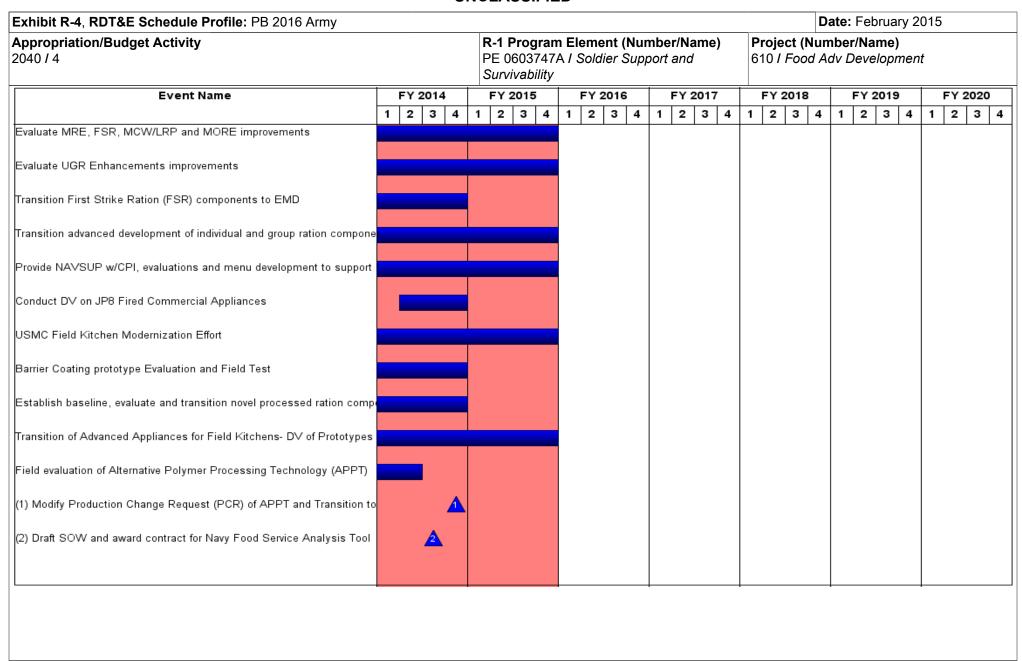
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Exhibit R-3, RDT&E P	roject C	ost Analysis: PB 2	016 Army	,								Date:	February	2015	
Appropriation/Budge 2040 / 4	t Activity	1					3747A / S	ement (N Soldier Su				Project (Number/Name) 610 / Food Adv Development			
Management Service	s (\$ in M	illions)		FY	2014	FY 2	015	FY 2 Ba		FY 2	2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o Contrac
Combat Feeding Program Management	Various	RDECOM, Natick, MA: Natick, MA	4.912	0.516	Apr 2014	0.357		-		-		-	Continuing	Continuing	Continui
SBIR+STTR	TBD	Various : Various	0.117	-		-		-		-		-	-	0.117	-
DLA Bill Pay	TBD	Various : Various	0.000	0.564		0.556		0.021		-		0.021	-	1.141	-
		Subtotal	5.029	1.080		0.913		0.021		-		0.021	-	-	-
Product Developmen	t (\$ in Mi	illions)		FY	2014	FY 2	015	FY 2 Ba		FY 2		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o
Joint Service Food/Combat Feeding Equipment	Various	RDECOM, Natick, MA : Natick, MA	35.789		Mar 2014	1.028	Date	-	Date	-	Date	-	•	Continuing	
Joint Service Food/Combat Feeding Equipment	Various	Various : Various	23.930	1.706	Mar 2014	1.106		-		-		-	Continuing	Continuing	Continuir
		Subtotal	59.719	3.298		2.134		-		-		-	-	-	-
Test and Evaluation (\$ in Milli	ons)		FY 2	2014	FY 2	015	FY 2 Ba		FY 2	2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o Contrac
Joint Service Food/Combat Feeding Equipment	Various	DTC/AEC : National Capitol Region	9.646	0.635	May 2014	0.433		-		-		-	Continuing	Continuing	Continuir
		Subtotal	9.646	0.635		0.433		-		-		-	-	-	-
			Prior Years		2014	FY 2	015	FY 2 Ba		FY 2		FY 2016 Total	Cost To	Total Cost	Target Value o Contrac
		Project Cost Totals	74.394	5.013	1	3.480		0.021				0.021		_	_

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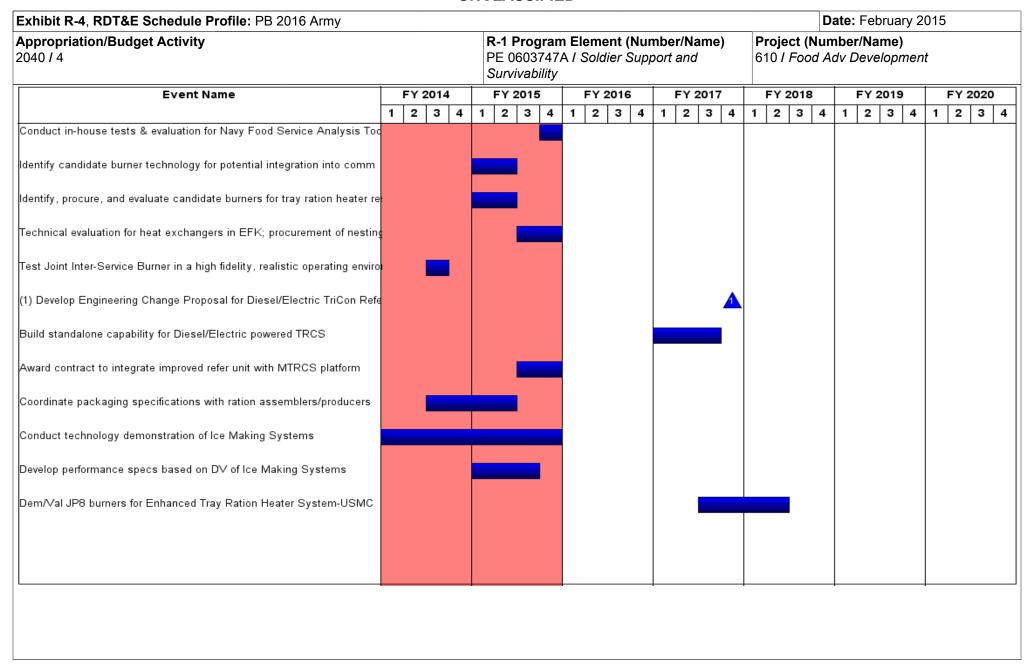


Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
1	,	, ,	umber/Name) Adv Development

Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
Evaluate MRE, FSR, MCW/LRP and MORE improvements	1	2009	4	2015	
Evaluate UGR Enhancements improvements	1	2009	4	2015	
Transition First Strike Ration (FSR) components to EMD	1	2009	4	2014	
Transition advanced development of individual and group ration components to EMD	1	2009	4	2015	
Provide NAVSUP w/CPI, evaluations and menu development to support NSCM upgrades	1	2010	4	2015	
Conduct DV on JP8 Fired Commercial Appliances	2	2014	4	2014	
USMC Field Kitchen Modernization Effort	1	2014	4	2015	
Barrier Coating prototype Evaluation and Field Test	1	2012	4	2014	
Establish baseline, evaluate and transition novel processed ration components	1	2013	4	2014	
Transition of Advanced Appliances for Field Kitchens- DV of Prototypes	3	2013	4	2015	
Field evaluation of Alternative Polymer Processing Technology (APPT)	1	2013	2	2014	
Modify Production Change Request (PCR) of APPT and Transition to DLA-TS	4	2014	4	2014	
Draft SOW and award contract for Navy Food Service Analysis Tool	3	2014	3	2014	
Conduct in-house tests & evaluation for Navy Food Service Analysis Tool	4	2015	4	2015	
Identify candidate burner technology for potential integration into comm	1	2015	2	2015	
Identify, procure, and evaluate candidate burners for tray ration heater reset	1	2015	2	2015	
Technical evaluation for heat exchangers in EFK; procurement of nesting sinks	3	2015	4	2015	
Test Joint Inter-Service Burner in a high fidelity, realistic operating environm	3	2014	3	2014	
Develop Engineering Change Proposal for Diesel/Electric TriCon Refer System	4	2017	4	2017	
Build standalone capability for Diesel/Electric powered TRCS	1	2017	3	2017	
Award contract to integrate improved refer unit with MTRCS platform	3	2015	4	2015	

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
1	,	, ,	umber/Name) I Adv Development

	Sta	art	E	nd
Events	Quarter	Year	Quarter	Year
Coordinate packaging specifications with ration assemblers/producers	3	2014	2	2015
Conduct technology demonstration of Ice Making Systems	1	2014	4	2015
Develop performance specs based on DV of Ice Making Systems	1	2015	3	2015
Dem/Val JP8 burners for Enhanced Tray Ration Heater System-USMC	3	2017	2	2018

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army							Date: Febr	uary 2015				
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603747A / Soldier Support and Survivability Project (Number/Name) C08 / Rapid Equippi					,						
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
C08: Rapid Equipping Force	-	6.500	5.517	5.957	1.500	7.457	5.956	5.956	5.957	5.956	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Equipment mix and configuration may change based on changes in operational environment and circumstances.

A. Mission Description and Budget Item Justification

The Rapid Equipping Force (REF) supports Combatant Command (COCOM)/Army Service Component Command (ASCC) based on emerging rapid equipment requirements. The REF is an enduring organization (Base funded) per Headquarters, Department of the Army, memo, SUBJECT: Implementation Plan for Stabilization of the Rapid Equipping Force (REF), signed by the Under Secretary of the Army: Joseph W. Westphal, dated 30 January 2014.

The REF harnesses current and emerging technologies to provide rapid solutions to U.S. Army Forces employed globally. The REF combines and integrates functions that cross several Army staff elements and ASCCs to accelerate materiel solutions and technology insertion to U.S. Army Forces employed globally. The REF is the Army's quick reaction capability with the ability to develop, prototype, acquire, integrate and sustain Commercial-Off-The-Shelf (COTS), Government Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) solutions to meet urgent combat requirements for forces employed globally. It develops and inserts selected future force technologies, capabilities, and surrogate materiel solutions into deployed, deploying, select prepared to deploy, and transformational forces for operational evaluation, assessment, and evolutionary development. The REF plans and executes assessments and studies of Army practices and issues concerning operational needs, desired future force capabilities, and relevant Army business practices to provide feedback to Army Senior Leaders.

The REF bridges the gap between the traditional acquisition process and immediate equipping needs. The REF pursues tangible solutions that can be equipped rapidly with a goal of 180 days. The REF focuses on finding effective game-changing capabilities to increase Soldier effectiveness, protection, and lethality in any operational environment. The REF process provides the mechanism to respond rapidly to an adaptive enemy who changes in days and months, not years. The REF coordinates in theater work with the ASCC of the COCOMs to understand their urgent needs, for which the REF acquisition capability may identify, procure, deliver, and sustain solutions to the deployed units. This fiscal flexibility is significant in that it permits the REF to allocate funds against emerging threats and requirements in the year of fiscal execution.

The REF works directly with Operational Commanders at all levels, but focuses on Brigade level and below to find solutions to identified capability gaps. These solutions may result in procurement of new or existing military/commercial material equipment, or accelerated development of a future force material solution for insertion into the current force now.

In accordance with Ms. Heidi Shyu (Army Acquisition Executive) Memorandum, Subject: Acquisition Decision Memorandum (ADM) to Change the Milestone Decision Authority (MDA) for the Rapid Equipping Force (REF) Program, dated May 28, 2014, the overarching goal of institutionalizing the acquisition authorities within the REF is to preserve the autonomy of action that has proven successful through the past decade of war. Program Executive Office (PEO) Soldier has been assigned as the MDA

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
1	, ,	, ,	umber/Name) id Equipping Force

to provide proper acquisition oversight while enhancing visibility of these efforts. The MDA will ensure flexibility and speed focused on the needs of Soldiers serviced by the dedicated REF Program Management Office (PMO). A formal reporting scheme leveraging existing venues, (e.g., Program Status Reviews (PSR) Acquisition Category (ACAT) III Reporting, will ensure ASA (ALT) visibility, oversight, and direction.

The REF key tasks are:

- Partner with the Asymmetric Warfare Group (AWG) and the ASCCs to be responsive to tactical unit commanders in a global operating environment.
- Bridge specific Operational Needs Statement (ONS)/Joint Urgent Operational Needs Statement (JUONS)/Joint Emergent Operational Needs Statement (JEONS) gaps to meet urgent needs.
- Develop material solutions to counter emerging global asymmetric threats with reduced Soldiers in the operational environment.
- Ensure training, transportation, and sustainment are provided with every capability.
- Cultivate and rapidly insert emerging technologies into Soldiers' hands.
- Conduct operational assessments to provide useful operator feedback to the Army.
- Transition effective projects through the appropriate Army process for long-term sustainment.
- Be aggressive and push the acquisition envelope, but operate within the law.
- Integrate with existing Army organizations and systems to enable them to recognize and solve problems for tactical units.

The current REF Integrated Priority List (RIPL) consists of the REF top priorities based on requirements received from deployed units and drives all REF efforts.

- 1. Dismounted Improvised Explosive Device (IED) Defeat
- 2. Small Combat Outpost (COP)/Patrol Base (PB) Sustainment
- 3. Small Combat Outpost (COP)/Patrol Base (PB) Force Protection
- 4. Dismounted Operations Support

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- 5. Intelligence, Surveillance, and Reconnaissance (ISR) Shortfalls in Environmentally Inhospitable Operational Environments (OEs)
- 6. Dismounted Blue Force Tracking and Mission Command
- 7. Other

The Army anticipates the REF working similar priorities in FY16 and beyond. The REF average cost per requirement is ~\$1.1 based on historical data.

The REF FY16 RDT&E request \$5.957million (Base) and \$1.500 million (OCO) is for system integration, Testing and Evaluation to support project requirements. The REF requires RDT&E funds to test technologies in order to ensure suitability and safety before equipping the Soldier – any modified COTS/GOTS/NDI items have to be tested. RDT&E integrates, modifies, and equips urgent material capabilities to units in support of Joint and Army Forces Commanders to enhance the combat effectiveness of the operating force.

The RDT&E funding also provides the REF the flexibility to invest in near-term, innovative solutions. RDT&E funds are necessary in the vast majority of all REF projects. REF uses RDT&E funds to work with industry and Other Governmental Agencies (OGAs) in order to further develop high (>6) Technology Readiness Level (TRL)

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
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systems or advanced technologies that often only need small amounts of funding in order to help them achieve a maturity level that is suitable to solve deployed U.S. Army Forces problems. The REF requires RDT&E funds to integrate several different COTS/GOTS/NDI technologies into one capability that solves the tougher and more complex problems. The REF uses RDT&E funds to conduct demonstrations and tests to validate technology solutions. The REF requires RDT&E funds in order to modify existing technologies that were developed for one purpose, but now may be suitable to solve another problem. The REF Expeditionary Labs use RDT&E funds to develop and adapt technologies that meet immediate requirements forward in the theaters of operation with the active assistance of the Soldier in the solution development process.

		0.0	2400	000	.ota.
Title: Rapid Equipping Force	6.500	5.517	5.957	1.500	7.457
Description: Funding is provided for the following effort.					
FY 2014 Accomplishments: The demand for REF 10-liner requirements has levels based on the increased tempo of transitioning brigades in Operation Enduring Freedom (OEF) with nine (9) month deployments; the expansion of brigades' operational environments (OEs) that required smaller units to operate in more isolated areas; the expansion of Army Special Operation Forces Village Stability Operations (VSO) efforts; and the introduction of Security Force Advisory Assistance Teams (SFAATs) – a new force structure and role in OEF. At the end of FY14, the REF had 554 total requirements -494 were OCO requirements. For FY15 the REF projected 600 requirements (540 Base, 60 OCO). As of 31 Dec 2014, the REF had 180 total requirements – 167 were OCO requirements.					
FY 2015 Plans: The REF mission expands to perform Direct Support (DS) to globally deployed Soldiers, ASCCs of the Combatant Commands, and regionally aligned Brigade Combat Teams (BCTs). During the same period, the REF expects to see an increase in requirements submitted by Army Special Operations Forces (SOF) in other areas of the world, as well as, from brigades employed in more global roles, such as the regionally aligned BCTs, and their logistical support elements. REF's Expeditionary Labs are deployed to provide engineer support directly to Battalion and Brigade Forward Operating Bases/Combat Outposts/Patrol Bases and work side-by-side with Soldiers as they execute their missions. Engineers connect directly to Army, DoD and National Labs to design and fabricate potential solutions while including the users' immediate feedback. The REF also expects to play a much more deliberate role in providing support to the Army's Global Response Force as they prepare for a wider range of response missions.					
FY 2016 Base Plans: The REF partners with forces the ASCCs and Army SOF community to perform DS to globally deployed Soldiers and regionally aligned BCTs. The REF anticipates an increased need for flexibility to develop technological					

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B. Accomplishments/Planned Programs (\$ in Millions)

FY 2016

Base

FY 2014 | FY 2015 |

FY 2016

OCO

FY 2016

Total

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: Febr	uary 2015		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/ PE 0603747A / Soldier Support a Survivability			Number/Name) pid Equipping Force			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	
solutions supporting the reduced numbers of Soldiers operating glo in the face of a smaller and more lethal terrorism threat. The REF of the ASCCs in order to address capability gaps generated by geogra improve our understanding of evolving threats and operating conditional operations. The REF's Expeditionary Lab is deployed to provide execute their missions in austere environments within a smaller log to Army, Department of Defense (DoD), and National Labs to condithe user's immediate feedback. The REF expects to insert emerging in order to validate concept of operations (CONOPS) and Tactics, REF also expects to play a much more deliberate role in providing they prepare for a wider range of response missions. We anticipate technology demonstrations and Joint Capabilities Technology Demonstrations and Joint Capabilities Technology Demonstrations. In accordance with REF's participation in led quick reaction capability effort, the Army determined the REF with 71 requirements in FY16 and beyond. For FY16 the REF projects 71 requirements in the following REF In Dismounted Improvised Explosive Device (IED) Defeat (\$220K) 2. Small Combat Outpost (COP)/Patrol Base (PB) Sustainment (\$3. Small Combat Outpost (COP)/Patrol Base (PB) Force Protection Dismounted Operations Support (\$1,845K) 5. Intelligence, Surveillance, and Reconnaissance (ISR) Shortfalls Environments (OEs) (\$248K) 6. Dismounted Blue Force Tracking and Mission Command (\$55K) 7. Other (\$1,763K) The REF anticipates ATEC testing and evaluation cost of \$1.00M. technologies in order to ensure suitability and safety before equipping NDI items has to be tested. FY 2016 OCO Plans:	expects to increase our engagement with aphical and environmental constraints and ions within the respective ASCC areas of ngineer support directly to Soldiers as they istical footprint. Engineers connect directly uct design and fabrication while including ag technologies into ASCC level exercises rechniques and Procedures (TTP). The support to the Global Response Force as a increased coordination with various Army onstrations in order to leverage developed y gaps and gain immediate feedback through the Office of Secretary of Defense (OSD) ould provide the Army's warm base capability attegrated Priority List (RIPL). In (\$716K) In Environmentally Inhospitable Operational The REF requires RDT&E funds to test						

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 4	PE 0603747A I Soldier Support and	C08 I Rapi	d Equipping Force
	Survivability		

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2016	FY 2016
, , , , , , , , , , , , , , , , , , , ,	FY 2014	FY 2015	Base	oco	Total
For FY16 the REF projects 71 requirements in the following REF Integrated Priority List (RIPL).					
Dismounted Improvised Explosive Device (IED) Defeat (\$44K)					
2. Small Combat Outpost (COP)/Patrol Base (PB) Sustainment (\$22K)					
3. Small Combat Outpost (COP)/Patrol Base (PB) Force Protection (\$144K)					
4. Dismounted Operations Support (\$373K)					
5. Intelligence, Surveillance, and Reconnaissance (ISR) Shortfalls in Environmentally Inhospitable Operational					
Environments (OEs) (\$50K)					
6. Dismounted Blue Force Tracking and Mission Command (\$11K)					
7. Other (\$356K)					
The REF anticipates ATEC testing and evaluation cost of \$.500M. The REF requires RDT&E funds to test					
technologies in order to ensure suitability and safety before equipping the Soldier – any modified COTS/GOTS/					
NDI items has to be tested.					
Accomplishments/Planned Programs Subtotals	6.500	5.517	5.957	1.500	7.457

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

	•		FY 2016	FY 2016	FY 2016				Cost To
<u>Line Item</u>	FY 2014	FY 2015	Base	<u>000</u>	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020 Complete Total Cost
M08101: Other Procurement Army	25.000	22.380	17.937	8.500	26.437	4.286	4.611	4.257	4.460 Continuing Continuing
• 121018000: Operations	103.451	94.358	20.626	-	20.626	20.687	20.826	20.975	- Continuing Continuing
and Maintenance, Army									

Remarks

Army

D. Acquisition Strategy

The REF harnesses current and emerging technologies to provide rapid solutions to the urgently required capabilities of U.S. Army Forces employed globally. The REF focus is on rapidly placing capabilities into Soldiers' hands. This mission is accomplished in one of two ways: rapidly adapting COTS/GOTS/NDI equipment to meet operational needs and developing emerging deployable capability via interaction with research and development organizations and academia. All capabilities are safety tested prior to insertion into operational environments. Training and sustainment are provided for every capability until it is transitioned to an approved acquisition program or terminated through an approved Army process. Operational assessments are conducted to provide feedback in support of Army equipping and fielding decisions. REF capabilities routinely serve to as a bridge to specific ONS, JUONS, and JEONS gaps to meet urgent operational requirements.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015	
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603747A I Soldier Support and Survivability	Project (Number/Name) C08 / Rapid Equipping Force
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army

Appropriation/Budget Activity

2040 / 4

R-1 Program Element (Number/Name)
PE 0603747A / Soldier Support and

Survivability

R-1 Program Element (Number/Name)
PE 0603747A / Soldier Support and
PE 0603747A / Soldier Support and
Project (Number/Name)
C08 / Rapid Equipping Force

Date: February 2015

Product Development (\$ in Millions)		FY 2014		FY 2	015	FY 2 Ba		FY 2		FY 2016 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Dismounted Improvised Explosive Device (IED) Defeat	C/FFP	Various : Various	1.916	0.444		0.213		0.220		0.044		0.264	Continuing	Continuing	Continuing
Dismounted Operations Support	C/FFP	Various : Various	2.055	1.113		1.432		1.845		0.373		2.218	Continuing	Continuing	Continuing
Intelligence, Surveillance, and Reconnaissance (ISR) Shortfalls in Environmentally Inhospitable OEs	C/FFP	Various : Various	3.808	0.907		0.554		0.248		0.050		0.298	Continuing	Continuing	Continuing
Small Combat Outpost (COP) / Patrol Base (PB) Force Protection and Sustainment	C/FFP	Various : Various	3.738	-		-		-		-		-	Continuing	Continuing	Continuing
Other-REF RIPL Priorities (5-10)	C/FFP	Various : Various	8.778	-		-		-		-		-	Continuing	Continuing	-
Other	C/FFP	Various : Various	0.000	0.796		1.176		1.763		0.356		2.119	-	4.091	-
Base: Various Projects- Protect the Force in Counter Insurgency	C/FFP	Various : Various	11.841	-		-		-		-		-	-	11.841	-
Small Combat Outpost (COP)/Patrol Base (PB) Sustainment	C/FFP	Various : Various	0.000	0.648		0.384		0.110		0.022		0.132	-	1.164	-
Base: Various Projects- Enhance Intelligence Surveillance Recon	C/FFP	Various : Various	9.009	-		-		-		-		-	-	9.009	-
Small Combat Outpost (COP)/Patrol Base (PB) Force Protection	C/FFP	Various : Various	0.000	0.870		0.605		0.716		0.144		0.860	-	2.335	-
Dismounted Blue Force Tracking and Mission Command	C/FFP	Various : Various	0.000	0.222		0.153		0.055		0.011		0.066	-	0.441	-

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Arm	y								Date:	February	2015	
Appropriation/Budge 2040 / 4	et Activity	/					3747A / S	ement (N Soldier Su			Project (Number/Name) C08 / Rapid Equipping Force				
Product Development (\$ in Millions)				FY 2	2014	FY 2015		FY 2016 Base			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date			Total Cost	Target Value of Contract
Base: Various Projects- Logistics/Medical in Counterinsurgency Ops	C/FFP	Various : Various	1.639	-		-		-		-		-	-	1.639	-
Base: Various Projects- Timeliness of Analysis and Information Dissemination	C/FFP	Various : Various	6.961	-		-		-		-		-	-	6.961	-
Congressional Add-Squad Mission Support System (SMSS)	C/FFP	Various : Various	1.600	-		-		-		-		-	-	1.600	-
SSTR/Economic Assumptions/FFRDC and SBIR	C/FFP	Various : Various	1.090	-		-		-		-		-	-	1.090	-
OCO: Rapid Equipping Force	C/FFP	Various : Various	19.190	-		-		-		-		-	-	19.190	-
		Subtotal	71.625	5.000		4.517		4.957		1.000		5.957	-	-	-
Test and Evaluation	(\$ in Milli	ions)		FY 2	2014	FY :	2015		2016 ise		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATEC (REF Integrated Priority List 1-10)	C/FFP	Various : Various	9.844	1.500		-		-		-		-	Continuing	Continuing	Continuin
ATEC (REF Integrated Priority List 1-7)	C/FFP	Various : Various	0.000	-		1.000		1.000		0.500		1.500	-	2.500	-
		Subtotal	9.844	1.500		1.000		1.000		0.500		1.500	-	-	-
			Prior Years	FY 2	2014		2015	-	2016 Ise	00	2016 CO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	81.469	6.500		5.517		5.957		1.500		7.457	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army				D	ate: February 2	015	
Appropriation/Budget Activity 2040 / 4		R-1 Program Element (Num PE 0603747A / Soldier Supp Survivability	Project (Nun C08 / Rapid I	Project (Number/Name) C08 / Rapid Equipping Force			
Event Name	FY 2014	FY 2015 FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	
	1 2 3 4	1 2 3 4 1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	
n/a							

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army	Date: February 2015		
1	,	, ,	umber/Name) d Equipping Force

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
n/a	1	2016	4	2017	

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Pate: February 2015		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603747A I Soldier Support and Survivability				Project (Number/Name) EL1 I Army Field Feeding Programs				
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
EL1: Army Field Feeding Programs	-	-	-	0.280	-	0.280	1.974	0.452	-	0.509	-	3.215	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

Note

Army

2016 shall be the first funded year for the Army Field Feeding Programs Element.

A. Mission Description and Budget Item Justification

This project provides for the advanced component development and prototyping of Army food and combat feeding equipment designed to reduce the logistics burden and Operation and Support (O&S) costs of subsistence support to service personnel. Project supports development of rapidly deployable field food service equipment in coordination with ration development efforts. Project conducts demonstration and validation of improved subsistence support items used to enhance soldier effectiveness and quality of life in the Army and the other military Services, as coordinated with the Department of Defense (DoD) Food Research, Development, Test, Evaluation and Engineering Program. This project develops critical enablers that support the Joint Future Force Capabilities and the Joint expeditionary mindset by maintaining readiness through fielding and integrating new equipment. This equipment enhances the field soldier's well-being and provides the soldier with usable equipment, in addition to reducing sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, combat zone footprint, and costs for logistical support.

This PE/Project supports Field Feeding programs for the Army.

E	B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016	FY 2016 OCO	FY 2016
		F1 2014	F1 2015	Base	UCU	Total
7	Fitle: Battlefield Kitchen (BK) technology development effort	-	-	0.280	-	0.280
t	Description: Provide replacement of the obsolete Mobile Kitchen Trailer (MKT) system. The BK shall replace the MKT with a kitchen that provides fuel efficient, thermally controlled, closed combustion appliances within an environmentally controlled workspace. The BK shall provide rations for up to 300 Soldiers within 4 hours of setup. The BK provides refrigeration, running water and a heated serving line using the same off-road prime mover as the MKT as well as transportability by rail, sea, fixed and rotary wing aircraft.					
	FY 2016 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015		
2040 / 4	, ,	, ,	umber/Name) / Field Feeding Programs

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Perform evaluation of appliances integrated with Jet Propellant 8 (JP-8) fired burners developed in the Science and Technology (S&T) phase as culmination of technology transfer agreement. Prepare Milestone B documentation.					
Accomplishments/Planned Programs Subtotals	-	-	0.280	-	0.280

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

			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• RDT&E 654713.548:	1.874	3.034	1.430	-	1.430	0.961	0.550	0.652	1.319	Continuing	Continuing
Military Subsistence System											
• RDT&E 654713.EL2: <i>Army</i>	-	-	0.333	-	0.333	1.505	2.058	1.778	1.138	Continuing	Continuing
Field Feeding Equipment											
• RDT&E 643747.610:	5.013	3.480	0.021	-	0.021	5.598	6.803	5.043	4.713	Continuing	Continuing
Food Adv Dev											
OPA M65806: Assault	0.423	4.889	3.632	-	3.632	5.167	4.660	4.165	4.605	Continuing	Continuing
Kitchen, Field Feeding											

Remarks

D. Acquisition Strategy

Project development will transition to System Development & Demonstration and into production after thorough testing.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Army	y								Date:	February	2015	
Appropriation/Budge 2040 / 4	et Activity	1					ogram Ele 3747A / S ability	•		•		(Number		Programs	
Management Service	es (\$ in M	illions)		FY:	2014	FY	2015		2016 ise		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Project Management Support	Various	PM Force Sustainment : Natick, MA	0.000	-		-		0.150		-		0.150	-	0.150	-
		Subtotal	0.000	-		-		0.150		-		0.150	-	0.150	-
Test and Evaluation	(\$ in Milli	ons)		FY:	2014	FY	2015	FY 2	2016 ise		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Battlefield Kitchen	Various	DTC/AEC PM-FSS, : Natick Ma	0.000	-		-		0.130	Oct 2015	-		0.130	Continuing	Continuing	-
		Subtotal	0.000	-		-		0.130		-		0.130	-	-	-
			Prior Years	FY:	2014	FY	2015		2016 Ise		2016 CO	FY 2016 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	-		-		0.280		-		0.280	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																				D	ate	: F	ebr	uary	20	15				
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603747A I Soldier Support and Survivability														Project (Number/Name) EL1 / Army Field Feeding Prog								ograms			
Event Name		FY 2014			FY 2015				FY 2016						2017			FY 2018				FY 2019					Y 2		_	
		2	3	4	1	2	3 4	1	2	2	3	4	1	2	3	4	1	2	3	4	1	2	2 :	3 4	4	1	2	3	4	
Conduct advanced component development and demonstration for th B	M																													
(1) Complete Milestone B and transition Battlefield Kitchen to EMD													^																	
Award advanced component development contract for DESERT																														
Conduct advanced component development and demonstration for DES	ie.																													
(2) Complete Milestone B and transition DESERT to EMD																					2									
																	'				'									

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
1	 - 3 (umber/Name) / Field Feeding Programs

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Conduct advanced component development and demonstration for th BK	1	2016	4	2017
Complete Milestone B and transition Battlefield Kitchen to EMD	1	2017	1	2017
Award advanced component development contract for DESERT	1	2018	1	2018
Conduct advanced component development and demonstration for DESERT	2	2018	4	2018
Complete Milestone B and transition DESERT to EMD	1	2019	1	2019