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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0603747A: <i>Soldier Support and Survivability</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	40.392	76.456	9.747	-	9.747	9.965	9.873	10.225	10.159	Continuing	Continuing
610: <i>FOOD ADV DEVELOPMENT</i>	4.045	4.234	3.843	-	3.843	3.971	4.131	4.343	4.292	Continuing	Continuing
C08: <i>RAPID EQUIPPING FORCE</i>	36.347	72.222	5.904	-	5.904	5.994	5.742	5.882	5.867	Continuing	Continuing

Note
Change Summary Explanation: FY 2012: Funds realigned to higher priority Army programs.

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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	33.178	76.456	4.166	-	4.166
Current President's Budget	40.392	76.456	9.747	-	9.747
Total Adjustments	7.214	-	5.581	-	5.581
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY11 OCO Request	7.214	-	5.581	-	5.581

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
610: <i>FOOD ADV DEVELOPMENT</i>	4.045	4.234	3.843	-	3.843	3.971	4.131	4.343	4.292	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, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Containerized Ice Making System (CIMS) <div style="text-align: right;">Articles:</div>	0.070 0	-	-	-	-
Description: Provides a containerized ice making system to support base camps. FY 2010 Accomplishments: Reviewed and validate Ice usage/consumption requirements for BISS with Combined Arms Support Command (CASCAM) and the Joint Service Community. Performed market research to evaluate existing Commercial Off the Shelf / Non-Developmental (COTS/NDI) bulk Ice Making and bagging Systems. Developed a Draft Performance Specification or a Commercial Item Description (CID). Prepared a Request for Proposal/Statement of Work (SOW) to award a subsequent developmental contract to design and fabricate BISS prototype(s).					
Title: Solar Power Refrigeration <div style="text-align: right;">Articles:</div>	0.318 0	0.189 0	-	-	-
Description: Provides a mechanical sub cooler that will increase the operational temperature limit, reduce fuel consumption and					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
decrease electrical draw. The reduction in electrical draw makes it a better candidate for alternative energy source like Solar. FY 2010 Accomplishments: Transitioned Solar Refrigeration Technology from S&T to system development phase. Prepared solicitation for prototype. FY 2011 Plans: Transitioned Solar Refrigeration Technology from S&T to system development phase. Prepared solicitation for prototype.						
Title: Solid Waste Remediation Articles: Description: Provides environmentally friendly incineration system for solid waste. FY 2011 Plans: Transition Waste to Energy Converter (WEC) technology to advanced component development phase after successful demonstration of exit criteria outlined in the Technology Transition Agreement. Review and validate requirements outlined in the Capability Production Document (CPD) with CASCOM and Joint Service Community. Establish design and evaluation criteria to meet desired capability. FY 2012 Base Plans: Test solid waste remediation hardware and transition to 6.5.		-	0.290 0	0.507	-	0.507
Title: Modular Appliances for Field Feeding Articles: Description: Provide a suite of common, man portable, highly efficient, closed combustion, thermostatically controlled appliances for use across the spectrum of field feeding and base camp operations. FY 2010 Accomplishments: Transitioned Man-portable appliance technology to advanced component development phase to integrate into the Containerized Kitchen (CK). Establish design and evaluation criteria to meet desired capability. Initiated fabrication of prototype and initiate Developmental Testing (DT). FY 2011 Plans:		0.390 0	0.423 0	-	-	-

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603747A: Soldier Support and Survivability		PROJECT 610: FOOD ADV DEVELOPMENT	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Prepare solicitation for prototype and award contract. Initiate fabrication of prototype and initiate Developmental Testing (DT).					
Title: Fielded Individual Ration Improvement Project (FIRIP) Articles: Description: Continuous product improvement project for the MRE FY 2010 Accomplishments: Continue to identify suitable COTS/NDI candidate items and conduct in-house product development of food components for fielded individual operational rations (MRE 2013/2014 DOP) to enhance acceptability, increase consumption and improve nutritional intake. Conduct pilot scale in-house production to support engineering design, technology insertion, and producibility. Work with vendors and assemblers as needed to ensure feasibility and technology transition. 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, functionality and improve logistics. Processing and packaging to introduce targeted component items into individual ration platforms for enhanced acceptability, nutrition and performance. FY 2011 Plans: Continue to identify suitable COTS/NDI candidate items and conduct in-house product development of food components for fielded individual operational rations (MRE 2013/2014 DOP) to enhance acceptability, increase consumption and improve nutritional intake. Conduct pilot scale in-house production to support engineering design, technology insertion, and producibility. Work with vendors and assemblers as needed to ensure feasibility and technology transition. 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, functionality and improve logistics. processing and packaging to introduce targeted component items into individual ration platforms for enhanced acceptability, nutrition and performance. FY 2012 Base Plans: Continue to identify suitable COTS/NDI candidate items and conduct in-house product development of food components for fielded individual operational rations (MRE 2015 DOP) to enhance acceptability, increase consumption and improve nutritional intake. Conduct pilot scale in-house production to support engineering design, technology insertion, and producibility. Work with vendors and assemblers as needed to ensure feasibility and technology transition. Develop, integrate, and validate state-of-the-art science and technology, food processing and primary/secondary packaging innovations into individual ration platforms to increase	0.915 0	0.649 0	0.630	-	0.630

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
operational effectiveness, functionality and improve logistics. processing and packaging to introduce targeted component items into individual ration platforms for enhanced acceptability, nutrition and performance.						
Title: Assault/Special Purpose Ration Improvement Project (ASPIP) Articles: Description: Continuous product improvement of special purpose rations by the insertion of new technologies in nutrition, processing and packaging. FY 2010 Accomplishments: Continue identification and selection of new candidate items. Conduct in-house product development as needed; assemble test menus, select test site, and transition to 6.5 for field test. Complete procurement documents for new items and new assembly documentation for FSR and MCW/LRP. Conduct production testing of new components. FY 2011 Plans: Continue identification and selection of new candidate items. Conduct in-house product development as needed; assemble test menus, select test site, and transition to 6.5 for field test. Complete procurement documents for new items and new assembly documentation for FSR and MCW/LRP. Conduct production testing of new components. FY 2012 Base Plans: Continue identification and selection of new candidate items. Conduct in-house product development as needed; assemble test menus, select test site, and transition to 6.5 for field test. Complete procurement documents for new items and new assembly documentation for FSR and MCW/LRP. Conduct production testing of new components.		0.310 0	0.229 0	0.190	-	0.190
Title: Performance Metrics of Optimized Packaging Articles: Description: Integrate / demonstrate thin film and coating technologies and their respective properties into durable, high barrier, non-foil ration packaging materials and to build functionality into packaging materials to enhance package shelf life and product survivability while down-gauging materials. FY 2011 Plans:		-	0.121 0	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
This effort will evaluate innovative packaging materials including high barrier, non-foil packaging structure for acidic condiments in order to increase condiment variety and warfighter acceptability for maximum consumption and nutritional intake. Packaging materials will be down-selected then integrated with new formulations of high demand acidic condiments. The effort involves reformulating and optimizing pH of acidic condiments for acceptability, then integrating those new formulations with the down-selected packaging material for evaluation of package integrity, product quality, and shelf life. Producibility testing will then be initiated for commercial scale-up of the reformulated high acid condiments in the new packaging materials. Technical data and prototypes will transition to individual & group ration improvement projects for field testing.					
Title: Next Generation Combat Breakfast Technologies					
Articles:					
Description: Develop and demonstrate technologies to enhance and expand development of the next generation of breakfast components.					
FY 2011 Plans: Transition from technology base advanced development effort highly acceptable, multi-component breakfast and bakery items to fielded combat rations. Supports frequently requested items that will increase consumption, caloric intake, and morale. Military nutritional and shelf life requirements necessitate application of novel processing, packaging, and stabilization and preservation technologies to bridge the gap between user needs and product availability. Identified specific analytical requirements, ingredient, and packaging specifications such as water activity, pH, moisture, and additives to increase sensory acceptability and extend shelf life (humectants, emulsifiers, water binding agents, and anti-staling agents) are needed. Items include self-heating egg, breakfast burritos, breakfast pizzas, turnovers, sausage, instant breakfast cereals, pita breads, English muffins, etc. Will demonstrate and validate product parameters in commercial scale production, identify critical process controls, determine analytical testing or new test procedures, initiate long term storage studies and sensory evaluation, conduct nutrient analysis and incorporate in menu planning to meet OTSG guidelines, and develop technical data to support transition to production.					
FY 2012 Base Plans: Field Test items and transition to DSCP for procurement.					
Title: Ration Systems					
Articles:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Description: Identify and select new commercial and in-house developmental and product improvements.						
FY 2010 Accomplishments: Complete product evaluations and product refinement as needed. Prepare final technical data for commercial production and transition to Defense Supply Center Philadelphia ration system procurement of final modular supplements.						
Title: Fielded Group Ration Improvement Project (FGRIP)		0.975	0.730	0.640	-	0.640
Articles:		0	0			
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.						
FY 2010 Accomplishments: Revise performance-based documents and transition to Procurement. Improve family of UGRs (H&S (2013/2014), A (2012/2013), B and E (2013/2014)) to increase overall Warfighter acceptability, and consumption. Based on Warfighter recommendations, incorporate COTS, NDI, and developmental components into prototype menus. Select field test site and transition to 6.5 for field testing. Complete draft procurement documents. Integrate state of the art packaging and combat ration processing technologies for improved operational and functional performance.						
FY 2011 Plans: Improve family of UGRs (H&S (2013/2014), A (2012/2013), B and E (2013/2014)) to increase overall Warfighter acceptability, and consumption. Based on Warfighter recommendations, incorporate COTS, NDI, and developmental components into prototype menus. Select field test site and transition to 6.5 for field testing. Complete draft procurement documents. Integrate state of the art packaging and combat ration processing technologies for improved operational and functional performance.						
FY 2012 Base Plans: Improve family of UGRs (H&S (2014/2015), A (2013/2014), B and E (2014/2015)) to increase overall Warfighter acceptability, and consumption. Based on Warfighter recommendations, incorporate COTS, NDI, and developmental components into prototype menus. Select field test site and transition to 6.5 for field testing.						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Complete draft procurement documents. Integrate state of the art packaging and combat ration processing technologies for improved operational and functional performance.						
Title: Military Ration Studies		-	0.0700	-	-	-
Articles:						
Description: Evaluate the effects of extened consumption.						
FY 2011 Plans: Conduct study of effects of extened consumption of military rations on warfighters.						
Title: Alternative material for shipping containers		0.1100	-	-	-	-
Articles:						
Description: Identify and test suitable materials for shipping containers.						
FY 2010 Accomplishments: Complete evaluation of prototype shipping containers. Complete productibility and transportation studies of optimized shipping containers. Conduct user evaluation of shipping containers.						
Title: Naval Refrigeration Project		0.0900	-	-	-	-
Articles:						
Description: Develop Naval refrigeration to provide adequate and conveniently accessible chill/freeze storage space aboard ship.						
FY 2010 Accomplishments: Develop modular, hatchable, reconfigurable, dual temperature refrigerated and frozen space to support endurance requirements for legacy and future ships.						
Title: Future Navy Galleys / Hatchable Submarine Galley		0.3100	-	-	-	-
Articles:						
Description: Provide consolidated galley design and advanced technologies that support the Navy optimized crewing plan for both surface ships and submarines.						
FY 2010 Accomplishments:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Procure equipment, develop test plans, and conduct land-based testing to support Navy goals. Standardize and optimize the food service equipment, reducing manpower requirements, and supporting NAVSUP's Standard Core Menu for submarines.					
Title: Automated Shipboard Dishwashing System (ASDS) Articles: Description: Develop technologies to demonstrate an ASDS that will reduce labor and manning for Carrier Scullery Operations. FY 2011 Plans: Transition Automated Shipboard Scullery project from the Navy Small Business Innovative Research (SBIR) Program to a Phase III effort. Combat Feeding Directorate (CFD) will partner with PEO Carriers on a cost sharing initiative to support a Phase III SBIR effort. During the Phase III effort, the Automated Shipboard Dishwashing System (ASDS) configuration will be demonstrated aboard a U.S. Navy ship. Prior to the demonstrating the system onboard a ship, a Ship Configuration Change Document (SCD) will be initiated and approved. This will allow the ASDS to be installed onboard a Navy vessel for evaluation.	-	0.470 0	-	-	-
Title: US Navy Standard Core Menu Continuous Product Improvement Project (NSCM) Articles: Description: Provide recommendations for upgrading/improving Navy Standard Core Menu components by introducing new preparation techniques to enhance menu acceptance and effectiveness while reducing labor requirements. FY 2010 Accomplishments: Coordinate with NAVSUP to identify and collect information to determine menu goals and constraints; investigate emerging food preparation techniques to reduce labor for shipboard feeding; and provide annual reports and product recommendations. FY 2011 Plans: Provide NAVSUP with continuous product identification, evaluations and menu development to support NSCM upgrades and revision changes. FY 2012 Base Plans:	0.209 0	0.136 0	0.150	-	0.150

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Provide NAVSUP with continuous product identification, evaluations and menu development to support NSCM upgrades and revision changes.						
Title: UGR-E" Transition to the Alternate Chemical Heater Articles: Description: Transition a safe, inexpensive, flameless, and disposable heating system that heats the UGR-E" with improved safety characteristics and ultimately enhances operational effectiveness. FY 2010 Accomplishments: Complete transition (from a Technology Transition Initiative) of a fully functional alternate chemical heating technology for the UGR-E. Verify performance as drop-in component of the UGR-E. Revise performance-based procurement documents, field test under the FGRIP and transition procurement documents to DSCP.		0.250 0	-	-	-	-
Title: Smart Tag Indicators for Ration Packaging Articles: Description: Explore use of ultra thin battery technology to illuminate with measurable fill lines, and direction when visibility is low. FY 2011 Plans: Initiate program to provide ration components in fully integrated, multi-functional, active packaging materials beyond traditional polymer laminate films and oxygen scavenger sachets to improve storage stability & acceptability, reduce product waste, and increase consumption/nutrition. Performance oriented FY 2012 Base Plans: Initiate program to provide ration components in fully integrated, multi-functional, active packaging materials beyond traditional polymer laminate films and oxygen scavenger sachets to improve storage stability & acceptability, reduce product waste, and increase consumption/nutrition. Performance oriented		-	0.084 0	0.225	-	0.225
Title: Quality Kinetics Articles: Description: Explore use of ultra thin battery technology to illuminate with measurable fill lines, and direction when visibility is low. FY 2011 Plans:		-	0.056 0	0.125	-	0.125

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Transition and implement quantitative kinetics models utilizing analytical markers (fat oxidation colorimetry, etc) to 6.4 Assault/Special Purpose Ration Improvement Program (ASPIP) and Fielded Individual Ration Improvement Program (FIRIP). Integrate optimized quality kinetics models into current sensory evaluation system and adjust and optimize storage protocols and conditions using analytical testing/temperature kinetics and defined and recommended guidelines for conducting accelerated storage studies equivalent to Military storage requirements. Streamline and enhance evaluation process for identified new ration components (entres, sides, snacks, bakery items) that fall within the guidelines specified by the quality kinetics model, accelerate rapid fielding of specific ration components, decrease/minimize engineering support cases for quality related issues, and enhance development efficiency. Modify and transition technical data to Defense Supply Center Philadelphia. FY 2012 Base Plans: Continue to transition and implement quantitative kinetics models utilizing analytical markers (fat oxidation colorimetry, etc) to 6.4 Assault/Special Purpose Ration Improvement Program (ASPIP) and Fielded Individual Ration Improvement Program (FIRIP). Integrate optimized quality kinetics models into current sensory evaluation system and adjust and optimize storage protocols and conditions using analytical testing/temperature kinetics and defined and recommended guidelines for conducting accelerated storage studies equivalent to Military storage requirements. Streamline and enhance evaluation process for identified new ration components (entres, sides, snacks, bakery items) that fall within the guidelines specified by the quality kinetics model, accelerate rapid fielding of specific ration components, decrease/minimize engineering support cases for quality related issues, and enhance development efficiency. Modify and transition technical data to Defense Supply Center Philadelphia.							
Title: Improved Food Risk Assessment / Management Articles: Description: Provide DoDVSA** and Services a predictive modeling database / applicable training materials to provide science-based information to perform food safety risk assessment/management duties. FY 2011 Plans: Improved Food Risk Assessment/Management, provide DoD Veterinary Services Agency and services a predictive modeling database and applicable training materials to provide science-based information to perform food safety risk assessment/management duties			-	0.030 0	-	-	-
Title: Joint Service Refrigeration Container System (JSRCS)			-	0.130	0.350	-	0.350

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Articles:			0			
Description: Develop a joint service refrigerated container system that will support all military field feeding platforms.						
FY 2011 Plans: Develop a Joint Service Refrigerated Container System (JSRCS) to support group ration distribution and storage for multiple services.						
FY 2012 Base Plans: Develop a Joint Service Refrigerated Container System (JSRCS) to support group ration distribution and storage for multiple services.						
Title: Advanced Refrigeration Insulation		-	0.150	-	-	-
Articles:			0			
Description: Identify, test, and evaluate optimal insulation for military refrigerators.						
FY 2011 Plans: Evaluate and demonstrate state of the art insulation technology, like Aerogel Insulation to significantly improve refrigeration efficiency in the field and shipboard.						
Title: A Ration Capable Assault Kitchen		-	0.160	-	-	-
Articles:			0			
Description: Streamlined system for preparing A ration with Assault Kitchen.						
FY 2011 Plans: Develop a fully integrated refrigeration system for the Assault kitchen to allow the AK to support UGR-A ration feeding, and menu supplements						
Title: Modernization and Implementation of the Air Force Basic Expeditionary Airfield Resources (BEAR)		-	0.182	0.250	-	0.250
Articles:			0			
Description: Provide Air Force new electric food service equipment; and implementation plan to support the initial (i) / follow-on (f) systems to support AF BEAR field feeding.						
FY 2011 Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
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Air Force Basic Expeditionary Airfield Resources (BEAR) - Kitchen System Enhancements, provide AF with enhanced, state of the art all electric food service equipment; and continue to refine modular field feeding system. FY 2012 Base Plans: Air Force Basic Expeditionary Airfield Resources (BEAR) - Kitchen System Enhancements, provide AF with enhanced, state of the art all electric food service equipment; and continue to refine modular field feeding system.						
Title: Next Generation Hurdle Technologies Description: Provides newly formulated intermediate moisture ration components utilizing novel bioactive hurdles that will enable technologies for the ration developers to generate a higher variety of high quality ration components. FY 2012 Base Plans: Complete challenge studies, producibility contract, field testing for Warfighter acceptance, and prepare documents for transition to procurement.		-	-	0.190	-	0.190
Title: Aircrew Build to Order Meal Module Description: Provides deployed Army aircrews in rotary and fixed wing aircraft, Air Force/Navy fighter pilots, cargo pilots, medical evacuation aircrew, and tank crews in combat with a compact, modular, and nutritious lunch type meal that can be easily consumed on-the-go, in-flight, or on the job while performing missions for up to 7 to 8 hours per day. FY 2012 Base Plans: Conduct user field evaluation, analyze data, and refine ration and packaging configuration.		-	-	0.140	-	0.140
Title: Rightsizing UGR-A and B for Expeditionary Operations Description: Provides an optimized number of servings for use by Tactical Small Units (TSUs) in contingency basing operations for both the UGR-A (Army) and UGR-B (Marine Corps) with austere field feeding equipment. FY 2012 Base Plans:		-	-	0.150	-	0.150

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
						FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	
Conduct warfighter evaluation to validate proposed configuration, coordinate recommendations with Joint Culinary Center of Excellence and obtain JSORF approval, and update and transition revised procurement documents to DLA-TS.											
Title: Barrier Coating for Optimized Package Performance Description: Provides low-cost, non-foil, high performance packaging materials for incorporation into existing and future combat ration packaging systems, such as the Unitized Group Ration (UGR) and Meal, Ready-to-Eat (MRE). FY 2012 Base Plans: Determine optimal barrier structure and scale-up to pilot-scale production of prototype samples. Evaluate prototype packaging system for barrier and mechanical properties, and shelf life and rough handling.						-	-	0.171	-	0.171	
Accomplishments/Planned Programs Subtotals						4.045	4.234	3.843	-	3.843	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 654713 548: <i>Military Subsistence System</i>	2.010	2.118	2.075		2.075		2.136	2.149	2.176	Continuing	Continuing
• OPA 3, MA65801: <i>Refrigerated Containers</i>	31.970	16.488	22.133		22.133		7.631	4.238	14.585	Continuing	Continuing
D. Acquisition Strategy Project development will transition to System Development & Demonstration and production.											
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0603747A: Soldier Support and Survivability				610: FOOD ADV DEVELOPMENT					
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Combat Feeding Program Management	Various	RDECOM, Natick, MA:Natick, MA	3.508	0.404		0.398		-		0.398	Continuing	Continuing	Continuing
Subtotal			3.508	0.404		0.398		-		0.398			
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Service Food/Combat Feeding Equipment	Various	RDECOM, Natick, MA:Natick, MA	29.901	1.660		1.410		-		1.410	Continuing	Continuing	Continuing
Joint Service Food/Combat Feeding Equipment	Various	Various:Various	18.051	1.625		1.499		-		1.499	Continuing	Continuing	Continuing
Subtotal			47.952	3.285		2.909		-		2.909			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Joint Service Food/Combat Feeding Equipment	Various	DTC/AEC:National Capitol Region	7.508	0.545		0.536		-		0.536	Continuing	Continuing	Continuing
Subtotal			7.508	0.545		0.536		-		0.536			
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			58.968	4.234		3.843		-		3.843			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603747A: <i>Soldier Support and Survivability</i>		PROJECT 610: <i>FOOD ADV DEVELOPMENT</i>	

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Award R&D contract to design and fabricate prototypes for the JSRCS																												
Evaluate the SBIR automated scullery prototype onboard a Navy aircraft carrier																												
Quantify manning reductions for the scullery process based on testing results																												
Integrate control systems for diagnostics/prognostics of the automated scullery																												
Award a contract to design and develop a prototype modular TriCon kitchen (BEAR)																												
Review Marine Corp Field Feeding Doctrine identify capability of current systems																												
Award prototype contract for Containerized Ice Making System																												
Fabricate prototype Solar Powered Refrigerations System																												
Test Vapor Compression Improvement prototype																												
Test prototype Modular Appliances																												
Transition MNS procurement documents to DSCP																												
Transition Solar Power Refrigeration Technology to System Development phase																												
Transition Arctic Supplement procurement docs to DSCP																												
Transition Culinary Kit procurement docs to DSCP																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603747A: <i>Soldier Support and Survivability</i>	PROJECT 610: <i>FOOD ADV DEVELOPMENT</i>
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Transition Non-Retort ISP procurement docs to DSCP																												
Test and evaluate Thermoformed Corrugated Trays for UGR																												
Transition Thermoformed Corrugated Trays procurement docs to DSCP																												
Test and evaluate Common Box for UGR																												
Transition UGR-E Alternate Heater procurement docs to DSCP																												
Conduct DT on JP8 Fired Commerical Appliances																												
USMC Field Kitchen Modernization Effort																												
Joint Service Refrigeration Systems Enhancement Effort																												
Conduct Milestone B on Waste to Energy Converter																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603747A: <i>Soldier Support and Survivability</i>	PROJECT 610: <i>FOOD ADV DEVELOPMENT</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Award R&D contract to design and fabricate prototypes for the JSRCS	1	2011	1	2011
Evaluate the SBIR automated scullery prototype onboard a Navy aircraft carrier	1	2011	3	2011
Quantify manning reductions for the scullery process based on testing results	3	2011	3	2011
Integrate control systems for diagnostics/prognostics of the automated scullery	1	2012	3	2012
Award a contract to design and develop a prototype modular TriCon kitchen (BEAR)	4	2011	3	2012
Review Marine Corp Field Feeding Doctrine identify capability of current systems	1	2012	3	2012
Award prototype contract for Containerized Ice Making System	3	2010	3	2010
Fabricate prototype Solar Powered Refrigerations System	2	2011	3	2011
Test Vapor Compression Improvement prototype	2	2011	3	2011
Test prototype Modular Appliances	2	2011	3	2011
Transition MNS procurement documents to DSCP	3	2010	3	2010
Transition Solar Power Refrigeration Technology to System Development phase	2	2010	2	2010
Transition Arctic Supplement procurement docs to DSCP	4	2010	2	2011
Transition Culinary Kit procurement docs to DSCP	4	2010	2	2011
Transition Non-Retort ISP procurement docs to DSCP	4	2010	2	2011
Test and evaluate Thermoformed Corrugated Trays for UGR	4	2010	3	2011
Transition Thermoformed Corrugated Trays procurement docs to DSCP	4	2010	2	2011
Test and evaluate Common Box for UGR	4	2010	3	2011
Transition UGR-E Alternate Heater procurement docs to DSCP	3	2010	3	2010
Conduct DT on JP8 Fired Commerical Appliances	1	2014	3	2014
USMC Field Kitchen Modernization Effort	4	2013	3	2015
Joint Service Refrigeration Systems Enhancement Effort	4	2011	3	2012

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army			DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603747A: <i>Soldier Support and Survivability</i>	PROJECT 610: <i>FOOD ADV DEVELOPMENT</i>		

	Start		End	
Events	Quarter	Year	Quarter	Year
Conduct Milestone B on Waste to Energy Converter	3	2011	3	2011

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603747A: Soldier Support and Survivability				PROJECT C08: RAPID EQUIPPING FORCE			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
C08: RAPID EQUIPPING FORCE	36.347	72.222	5.904	-	5.904	5.994	5.742	5.882	5.867	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Note that: (a) Equipment mix and configuration may change based on changes in operational environment and circumstances. (b) REF- Resource Management Capabilities Needs equipment and funding execution details will be provided in the Secretary of Army report to the Congressional Defense Committee in March and October of each year (per HAC Report #108-553, DoD APPNs Bill 2005, June 18, 2004, page 134.)

A. Mission Description and Budget Item Justification

The US Army Rapid Equipping Force (REF) was established to provide urgently needed state-of-the-art technology to Soldiers in the field to meet immediate warfighter needs under operational conditions in the current theaters. The REF Forward Teams in Iraq and Afghanistan work with Operational Commanders and the Soldiers to identify warfighter needs while REF Rear formulates solutions and rapidly delivers/fields new equipment to the deployed units. REF solutions are rapid responses to evolving, adaptable and changing threats, in any operational environment. REF Rear evaluates, utilizes or adapts currently available military or civilian items (COTS/ GOTS) which typically have not been type classified for Army-wide use but are available and adaptable to the current Operational Commander's needs. For the REF, necessary materiel solutions can only be determined as "real time" threat modes are identified. Countermeasures to these evolving threats must be developed/ purchased/modified, often within weeks, for the first cycle of spiral type responses. The REF rapidly provides capabilities to Army forces employed globally through current and emerging technologies in order to improve operational effectiveness. Specifically the REF is charged to: EQUIP Operational Commanders with off-the-shelf (government or commercial) solutions or near term developmental items that can be researched, developed and acquired quickly - ideally within 90 days.

The REF process rapidly provides capabilities to meet immediate warfighter needs and supports efforts to mitigate asymmetric and traditional threats. A key element of this process is the provision for execution flexibility. The REF process provides the mechanism to respond rapidly to an adaptive enemy who changes in days and months, not years. The REF focuses on finding effective capabilities to counter emerging and future threats.

The REF works directly with Operational Commanders to find solutions to identified equipping requirements. These solutions may result in procurement of new or existing military/commercial materiel equipment, or accelerated development of a Future Force materiel solution for insertion into the current force now. The REF adaptive practices are at the forefront of Army modernization and serve as a catalyst and change agent for Army transformation. The REF accomplishes its mission by working in partnership with industry, academia, Army senior leaders, the Army Training and Doctrine Command (TRADOC), the Army acquisition community, and the Army Test and Evaluation Command (ATEC) to meet immediate warfighter needs.

The REF ensures safety testing of all equipment prior to release to Soldier. All equipment must pass Safety Confirmation and have a Capabilities and Limitations Report completed prior to being issued to operational unit/Soldiers.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011					
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603747A: Soldier Support and Survivability		PROJECT C08: RAPID EQUIPPING FORCE				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
through current and emerging technologies in order to improve operational effectiveness. The REF ensures safety testing of all equipment prior to release to the Soldier. REF focuses on the development and testing of systems and mechanisms designed to detect, identify and defeat enemy equipment and actions designed to injure or kill in order to help protect the warfighter. The REF continues to maintain support to Commanders in the areas of Protecting the Force and Intelligence, Surveillance and Reconnaissance (ISR). FY 2011 Plans: The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. The REF rapidly provides capabilities to Army Forces employed globally through current and emerging technologies in order to improve operational effectiveness. The REF ensures safety testing of all equipment prior to release to the Soldier. REF focuses on the development and testing of systems and mechanisms designed to detect, identify and defeat enemy equipment and actions designed to injure or kill in order to help protect the warfighter. The REF continues to maintain support to Commanders in the areas of Protecting the Force and Intelligence, Surveillance and Reconnaissance (ISR). FY 2012 Base Plans: The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. The REF rapidly provides capabilities to Army Forces employed globally through current and emerging technologies in order to improve operational effectiveness. The REF ensures safety testing of all equipment prior to release to the Soldier. REF focuses on the development and testing of systems and mechanisms designed to detect, identify and defeat enemy equipment and actions designed to injure or kill in order to help protect the warfighter. The REF continues to maintain support to Commanders in the areas of Protecting the Force and Intelligence, Surveillance and Reconnaissance (ISR).								
Title: Congressional Add - Squad Mission Support (SMSS) Articles: Description: Funding is provided for the following effort FY 2010 Accomplishments: Squad Mission Support (SMSS)				1.600 0	-	-	-	-
Accomplishments/Planned Programs Subtotals				36.347	72.222	5.904	-	5.904

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603747A: <i>Soldier Support and Survivability</i>	PROJECT C08: <i>RAPID EQUIPPING FORCE</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• M08101: <i>REF</i>	694.750	100.819	4.923	43.000	47.923		5.000	4.700	4.200	Continuing	Continuing
• 134: <i>Operations and Maintenance, Army</i>	11.431	103.300	20.800	116.800	137.600		21.335	21.501	21.866	Continuing	Continuing

D. Acquisition Strategy

The REF provides urgently needed, state-of-the-art technology to soldiers in the field to meet immediate requirements. REF Rear evaluates, utilizes or adapts currently available military or civilian items (COTS/GOTS) which typically have not been type classified for Army-wide use but are available and adaptable to the current Operational Commander's needs.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT				
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0603747A: Soldier Support and Survivability				C08: RAPID EQUIPPING FORCE				
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Base: Various Projects - Protect The Force in Counter Insurgency	Various	Various:Various	-	53.442		3.504		-		3.504	Continuing	Continuing	Continuing
Base: Various Projects - Enhance Intelligence Surveillance Recon	Various	Various:Various	-	3.151		0.400		-		0.400	Continuing	Continuing	Continuing
Base: Various Projects - Logistics/Medical in Counterinsurgency Opns	Various	Various:Various	-	0.573		-		-		-	Continuing	Continuing	Continuing
Base: Various Projects - Timeliness of Analysis and Information Dissemination	Various	Various:Various	-	2.435		-		-		-	Continuing	Continuing	Continuing
Congressional Add - Squad Mission Support (SMSS)	Various	Various:Various	-	-		-		-		-	Continuing	Continuing	Continuing
SSTR/ Economic Assumption/ FFRDC and SBIR	FFRDC	Various:Various	-	-		-		-		-	Continuing	Continuing	Continuing
OCO: Rapid Equipping Force	Various	Various:Various	-	9.900		-		-		-	Continuing	Continuing	0.000
Subtotal			-	69.501		3.904		-		3.904			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATEC - Protect Force in Counterinsurgency Operations	TBD	Various:Various	-	2.721		2.000		-		2.000	Continuing	Continuing	Continuing
Subtotal			-	2.721		2.000		-		2.000			
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	72.222		5.904		-		5.904			
Remarks													

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