

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	2.422	2.081	2.118	0.000	2.118	2.082	2.115	2.153	2.185	Continuing	Continuing
548: MIL SUBSISTENCE SYS	2.422	2.081	2.118	0.000	2.118	2.082	2.115	2.153	2.185	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project supports the development and demonstration and Non-Developmental Item (NDI) Commercial Off The Shelf (COTS) evaluation of combat feeding equipment to enhance soldier efficiency and survivability, and to reduce food service logistics requirements for all four services. The project supports multi-fuel, rapidly deployable field food service equipment initiatives and engineering and manufacturing development to improve equipment, enhance safety in food service, and decrease fuel and water requirements. This project develops critical enablers that support the Joint Future Capabilities and Joint Expeditionary mindset, by maintaining readiness through fielding and integrating new equipment; by enhancing the field soldier's well-being; and providing soldier usable equipment. They also reduce sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, the combat zone footprint, and costs for logistical support.This PE/Project supports Field Feeding programs for all the services.

B. Program Change Summary (\$ in Millions)					
	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	2.491	2.092	2.129	0.000	2.129
Current President's Budget	2.422	2.081	2.118	0.000	2.118
Total Adjustments	-0.069	-0.011	-0.011	0.000	-0.011
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	-0.011			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.069	0.000			
• Adjustments to Budget Years	0.000	0.000	-0.011	0.000	-0.011

Change Summary Explanation

FY11 funding of \$11 thousand realigned to higher priority requirements.

UNCLASSIFIED

R-1 Line Item #96

Page 1 of 29

1099 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604713A: <i>Combat Feeding, Clothing, and Equipment</i>				PROJECT 548: <i>MIL SUBSISTENCE SYS</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
548: <i>MIL SUBSISTENCE SYS</i>	2.422	2.081	2.118	0.000	2.118	2.082	2.115	2.153	2.185	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification <p>This project supports the development and demonstration and Non-Developmental Item (NDI) Commercial Off The Shelf (COTS) evaluation of combat feeding equipment to enhance soldier efficiency and survivability, and to reduce food service logistics requirements for all four services. The project supports multi-fuel, rapidly deployable field food service equipment initiatives and engineering and manufacturing development to improve equipment, enhance safety in food service, and decrease fuel and water requirements. This project develops critical enablers that support the Joint Future Capabilities and Joint Expeditionary mindset, by maintaining readiness through fielding and integrating new equipment; by enhancing the field soldier's well-being; and providing soldier usable equipment. They also reduce sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, the combat zone footprint, and costs for logistical support. This PE/Project supports Field Feeding programs for all the services.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1							0.133	0.000	0.000	0.000	0.000
FY09: Analyzed new closed combustion kitchen appliances and ventilation options for an improved Containerized Kitchen (CK) configuration for production and incorporation into RESET. Awarded contract for new appliances and initiated prototype fabrication. <i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base											

UNCLASSIFIED

R-1 Line Item #96

Page 2 of 29

1100 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO								
Program #2 FY 10: Complete fabrication, complete Developmental Testing (DT) and initiate Operational Testing (OT) and evaluation of the CK RESET kit prototype. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO				0.000	0.307	0.000	0.000	0.000
Program #3 FY 11: Transition final CK RESET configuration to production and to the Integrated Logistics Supply Center (ILSC) for RESET. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010				0.000	0.000	0.050	0.000	0.050

UNCLASSIFIED

R-1 Line Item #96

Page 3 of 29

1101 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #4 FY09: Awarded contract for design, and built MKT Reset Kit prototype and commenced developmental tests. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO				0.460	0.000	0.000	0.000	0.000
Program #5 FY10: Complete developmental and operational test and evaluation of the MKT Reset Kit prototype. FY 2009 Accomplishments: FY 2009				0.000	0.280	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 4 of 29

1102 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #6 FY09: Completed Production Qualification Testing (PQT), Production Verication Testing (PVT) and initiated User evaluation, drafted Performance Specification, and transitioning Self Powered Tray Ration Heater (STRH) to procurement. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO				0.325	0.000	0.000	0.000	0.000
Program #7				0.000	0.000	0.452	0.000	0.452

UNCLASSIFIED

R-1 Line Item #96

Page 5 of 29

1103 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY11: Award contract for the design and fabrication of the prototype Battlefield Ice Supply System (BISS). Complete fabrication and conduct test and evaluation of the BISS prototype. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO						
Program #8 FY11: Complete fabrication and conduct test and evaluation of the Solar Power Refrigeration prototype. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.000	0.380	0.000	0.380

UNCLASSIFIED

R-1 Line Item #96

Page 6 of 29

1104 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #9 FY11: Review and validate the requirements of the preplanned product improvements in the requirements document for the Food Sanitation Center (FSC). Establish design and evaluation criteria to meet refrigeration requirement for trailer mounted FSC capability. Prepare solicitation for prototype. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.000	0.159	0.000	0.159
Program #10 FY09: Completed delivery of MRE (2010 Date of Pack (DOP)), performance based contract requirements to Defense Supply Center Philadelphia (DSCP) for procurement, including ration menus, assembly contract requirements, and component standardization documents. Completed field test/field evaluation of new ration components for Meals, Ready-to-Eat (MRE XXXII). Presented recommendations to Joint Service Operational Ration Forum (JSORF) for continuous improvement of ration components of MRE (2011 DOP). Obtained Office of the Surgeon General (OTSG) approval. Performed cutting for industry/Other Government Agencies (OGA). FY10/11: Based on field test results, present recommendations to JSORF (2Q10/2Q11) for continued product improvement of ration components/packaging/ technologies for MRE (2012/2013 DOP). Finalize MRE procurement documents and initiate transition to DSCP. Obtain OTSG approval. Perform cuttings for industry/ OGA to ensure consistent ration quality, understand PCR requirements, and resolve vendor/supplier issues.		0.146	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 7 of 29

1105 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Identify new components based on user feedback, focus groups, emerging products and technologies, and known user requirements. Obtain and assemble selected new items for test. Conduct field testing/field evaluation of new ration components for MRE (2013/2014 DOP) to improve quality, acceptability, nutrition, and expand variety. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO						
Program #11 FY10: Based on field test results, present recommendations to JSORF (2Q10/2Q11) for continued product improvement of ration components/packaging/ technologies for MRE (2012/2013 DOP). Finalize MRE procurement documents and initiate transition to DSCP. Obtain OTSG approval. Perform cuttings for industry/ OGA to ensure consistent ration quality, understand PCR requirements, and resolve vendor/supplier issues. Identify new components based on user feedback, focus groups, emerging products and technologies, and known user requirements. Obtain and assemble selected new items for test. Conduct field testing/field evaluation of new ration components for MRE (2013/2014 DOP) to improve quality, acceptability, nutrition, and expand variety. FY 2009 Accomplishments: FY 2009		0.000	0.190	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 8 of 29

1106 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #12		0.000	0.000	0.121	0.000	0.121
FY11: Based on field test results, present recommendations to JSORF (2Q10/2Q11) for continued product improvement of ration components/packaging/ technologies for MRE (2012/2013 DOP). Finalize MRE procurement documents and initiate transition to DSCP. Obtain OTSG approval. Perform cuttings for industry/ OGA to ensure consistent ration quality, understand PCR requirements, and resolve vendor/supplier issues. Identify new components based on user feedback, focus groups, emerging products and technologies, and known user requirements. Obtain and assemble selected new items for test. Conduct field testing/field evaluation of new ration components for MRE (2013/2014 DOP) to improve quality, acceptability, nutrition, and expand variety.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						

UNCLASSIFIED

R-1 Line Item #96

Page 9 of 29

1107 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO						
Program #13 FY09: Current FSR production and prototype menus were evaluated; field test data was analyzed by Consumer Research/Cognitive Science team. This was combined with data generated from the Nutritionally Optimized First Strike Ration (NOFSR) ATO and the data from both evaluations was used to design from 3 to 6 new FSR menus. Finalized FSR procurement documents and initiated transition to DSCP. Obtained OTSG approval for menus. Performed cuttings for industry/OGA. Identified new components and conduct field testing/evaluation of new ration components for MCW/LRP, and FSR (3). Final component documents and final assembly document were transitioned to DSCP for the next procurement of the MCW/LRP. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.175	0.000	0.000	0.000	0.000
Program #14 FY10: Post field test results, present recommendations to JSORF (2Q10/2Q11) for continued product improvement of ration components/packaging/ technologies for MCW/LRP and, Survival Rations and FSR (3/4). Finalize procurement documents and initiate transition to DSCP. Obtain OTSG approval for menus.		0.000	0.190	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 10 of 29

1108 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Perform cuttings for industry/OGA to ensure consistent ration quality, understand PCR requirements, and resolve vendor/supplier issues. Identify new components based on user feedback, focus groups, emerging products and technologies, and known user requirements. Obtain and assemble selected new items for test. Conduct field testing/field evaluation of new ration components for MCW/LRP, Survival Rations, and FSR (4/5). FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO						
Program #15 FY11: Post field test results, present recommendations to JSORF (2Q10/2Q11) for continued product improvement of ration components/packaging/ technologies for MCW/LRP and, Survival Rations and FSR (3/4). Finalize procurement documents and initiate transition to DSCP. Obtain OTSG approval for menus. Perform cuttings for industry/OGA to ensure consistent ration quality, understand PCR requirements, and resolve vendor/supplier issues. Identify new components based on user feedback, focus groups, emerging products and technologies, and known user requirements. Obtain and assemble selected new items for test. Conduct field testing/field evaluation of new ration components for MCW/LRP, Survival Rations, and FSR (4/5). FY 2009 Accomplishments: FY 2009		0.000	0.000	0.126	0.000	0.126

UNCLASSIFIED

R-1 Line Item #96

Page 11 of 29

1109 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #16 FY09: Presented Unitized Group Ration - Heat and Serve (UGR-H&S) (2011 DOP), UGR-A (2010 DOP), made recommendations to JSORF for continuous improvement of ration components. Obtained OTSG approval of updated menus. Performed cuttings/production tests with industry/OGA to ensure consistent quality and producibility. Finalized all procurement documents and transitioned to DSCP . Completed field testing of new ration components for UGR-H&S (2012 DOP), UGR-A (2011 DOP) and UGR - Express (UGR-E) (2012 DOP) to enhance quality and expand variety. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.175	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 12 of 29

1110 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #17 FY10: Present recommendations to JSORF for UGR-H&S (2012-2013 DOP), UGR-A (2011-2012 DOP) and UGR-E (2012-2013 DOP) for continued product improvement. Obtain OTSG approval. Perform cuttings/production tests with industry/OGA to ensure consistent ration quality and producibility. Complete field testing of new ration components for UGR-H&S (2013-2014 DOP), UGR-A (2012-2013 DOP) and UGR-E (2013-2014 DOP) to improve quality and expand variety. Finalize UGR procurement documents and initiate transition to DSCP. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.225	0.000	0.000	0.000
Program #18 FY11: Present recommendations to JSORF for UGR-H&S (2012-2013 DOP), UGR-A (2011-2012 DOP) and UGR-E (2012-2013 DOP) for continued product improvement. Obtain OTSG approval. Perform cuttings/production tests with industry/OGA to ensure consistent ration quality and producibility. Complete field testing of new ration components for UGR-H&S (2013-2014 DOP), UGR-A (2012-2013 DOP) and UGR-E (2013-2014 DOP) to improve quality and expand variety. Finalize UGR procurement documents and initiate transition to DSCP.		0.000	0.000	0.126	0.000	0.126

UNCLASSIFIED

R-1 Line Item #96

Page 13 of 29

1111 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #19 FY09: Quantified functionality of future galley process control system as an enabler to accommodate shipboard labor reductions to minimize equipment maintenance requirements through automated internal diagnostics. A prototype of a future galley system was constructed utilizing automated food service equipment/refrigeration, process controls, and ergonomic designs. The galley will be prototyped for initial operational testing and evaluation for potential inclusion into future galley designs onboard naval platforms. Galley designs will have the capacity to integrate future technologies that will significantly accommodate the reduction of shipboard manning requirements through automated processes, equipment technological advancements, and equipment diagnostics/prognostics for total system integration. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		0.479	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 14 of 29

1112 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #20 FY10: Coordinate with the Navy to determine future manning and feeding requirements; identify, research, and down select automation technologies; evaluate/test food service equipment; and integrate food service equipment into complete galleys that will support optimized crewing encompassing a total systems design and approach. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.469	0.000	0.000	0.000
Program #21 FY11: Complete all required TDP documents and specification requirements to transition galley food service systems to the Navy for procurement and fielding.		0.000	0.000	0.233	0.000	0.233

UNCLASSIFIED

R-1 Line Item #96

Page 15 of 29

1113 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #22 FY11: Use information from Navy shipboard refrigeration / ice consumption Front Analysis Report (FY09) to conduct a Continues Produce Improvement (CPI) project for Navy shipboard refrigeration and ice making capabilities		0.000	0.000	0.109	0.000	0.109
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #96

Page 16 of 29

1114 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #23 FY11: Complete all evaluations on submarine based equipment and make recommendations to NAVSEA for use in the Naval Shipboard Catalog. After approval from NAVSEA, CIDs will be developed for the equipment and then transitioned to Submarine Force Atlantic for procurement and support of required ship change documentation. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.000	0.210	0.000	0.210
Program #24 FY09: Awarded a contract to design and develop a prototype modular all electric Air Force kitchen. Conducted developmental testing of the prototype TriCon kitchen. Will initiate user testing with the Air Force. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		0.241	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 17 of 29

1115 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #25 FY10: Upgrade prototypes based on testing results. Transition soft shelter and hard shelter Electronic Single Pallet Expeditionary Kitchen (ESPEK) prototypes to Air Force Services. Develop Technical Data Package to support future Air Force procurement. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.176	0.000	0.000	0.000
Program #26 FY09: The BEAR-550(f) system was developed into a modular system that is capable of supporting feeding requirements from 550 to 3300. The system was designed to help reduce labor, provide modern, efficient equipment, increase the food production yield, and reduce life cycle cost. Initiated field testing and user evaluation with the Air Force.		0.248	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #96

Page 18 of 29

1116 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #27 FY10: Provide complete BEAR-550 prototype field kitchen system to a Combat Training Sites to support Services Training efforts. Transition Technical Data Package (TDD) that includes design, layout, and recommended equipment items to Air Force Services Command and the BEAR PMO to procure complete kitchen systems.		0.000	0.244	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #96

Page 19 of 29

1117 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #28 FY09: Transitioned from 6.4. a complete upgrade of Navy Communication Zone (COMMZ) in the form a prototype. Upgraded/corrected deficiencies with the Navy Communication Zone (COMMZ) kitchen identified as a result of the in-house testing. Developed equipment replacement list and an enhancement package that included cost data and transitioned prototype unit to the Navy for potential future procurement. The Navy will use the information developed under this program to determine feasibility of entire COMMZ fleet upgrade. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.040	0.000	0.000	0.000	0.000
Program #29 FY11: Integrate thermostatic control into the MBU control panel, simplify electronic operation and control analogs, increase means between failure time for Modern Burner Unit FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		0.000	0.000	0.094	0.000	0.094

UNCLASSIFIED

R-1 Line Item #96

Page 20 of 29

1118 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment		PROJECT 548: MIL SUBSISTENCE SYS				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #30 Product Improvements for Fielded Food Service Equipment and System, all services.				0.000	0.000	0.058	0.000	0.058
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #31 Small Business Innovative Research/Small Business Technical Transfer Program (SBIR/STTR)				0.000	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009								

UNCLASSIFIED

R-1 Line Item #96

Page 21 of 29

1119 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604713A: <i>Combat Feeding, Clothing, and Equipment</i>			PROJECT 548: <i>MIL SUBSISTENCE SYS</i>					
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO											
Accomplishments/Planned Programs Subtotals						2.422	2.081	2.118	0.000	2.118	
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2011</u>	<u>FY 2011</u>	<u>FY 2011</u>						
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Ord. #1: <i>RDTE, 0603747.610, Food Adv Dev</i>	3.767	4.186	4.234	0.000	4.234	4.166	4.240	4.315	4.380	Continuing	Continuing
• Ord. #2: <i>OPA 3, M65803, Kitchen, Containerized, Field</i>	30.532	24.699	16.881	0.000	16.881	0.000	0.000	0.000	0.000	Continuing	Continuing
• Ord. #3: <i>OPA 3, M65802, Sanitation Center, Field Feeding</i>	3.914	3.905	5.552	0.000	5.552	0.000	0.000	0.000	0.000	Continuing	Continuing
D. Acquisition Strategy											
Complete System Development and Demonstration of food items and equipment for transition into competitive procurement contract. Complete advanced research efforts to support Engineer Change Proposals for previously developed equipment.											
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.											

UNCLASSIFIED

R-1 Line Item #96

Page 22 of 29

1120 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment				PROJECT 548: MIL SUBSISTENCE SYS					
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Various combat feeding equipment, multi-fuel and water equipment	C	RDECOM NSC	4.040	1.056		1.055		0.000		1.055	Continuing	Continuing	0	
DOD Field Feeding Equipment	C	Various Location could not be determined.	1.654	0.291		0.280		0.000		0.280	Continuing	Continuing	0	
Army Field Feeding Equipment Development	C	PM Force Sustainment Systems (FSS) Location could not be determined.	0.961	0.216		0.215		0.000		0.215	Continuing	Continuing	0	
Subtotal			6.655	1.563		1.550		0.000		1.550			0.000	
Remarks														
Test and Evaluation (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Various	C	TECOM/OEC/ATC Location could not be determined.	1.636	0.350		0.345		0.000		0.345	Continuing	Continuing	0	
Subtotal			1.636	0.350		0.345		0.000		0.345			0.000	

UNCLASSIFIED

R-1 Line Item #96

Page 23 of 29

1121 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604713A: <i>Combat Feeding, Clothing, and Equipment</i>				PROJECT 548: <i>MIL SUBSISTENCE SYS</i>					
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks													
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CFP Management	C	RDECOM Location could not be determined.	0.995	0.168		0.223		0.000		0.223	Continuing	Continuing	0
SBIR/STTR	C	Nothing entered for Activity and Location. Location could not be determined.	0.084	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Subtotal			1.079	0.168		0.223		0.000		0.223			0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			9.370	2.081		2.118		0.000		2.118			0.000

UNCLASSIFIED

R-1 Line Item #96

Page 24 of 29

1122 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army							DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604713A: <i>Combat Feeding, Clothing, and Equipment</i>			PROJECT 548: <i>MIL SUBSISTENCE SYS</i>			
	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks									

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																				DATE: February 2010											
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)												R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment												PROJECT 548: MIL SUBSISTENCE SYS							

UNCLASSIFIED

R-1 Line Item #96

Page 26 of 29

1124 of 1922

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																				DATE: February 2010									
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)										R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment										PROJECT 548: MIL SUBSISTENCE SYS									

UNCLASSIFIED

R-1 Line Item #96

Page 27 of 29

1125 of 1922

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604713A: Combat Feeding, Clothing, and Equipment	PROJECT 548: MIL SUBSISTENCE SYS		
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Provide BEAR-550 prototype field kitchen for Combat Services Training	4	2009	1	2010
Transition Technical Data Package to USAF to procure complete kitchen systems	1	2010	3	2010
Select automation technology to optimize crewing via system design approach	4	2009	3	2010
Complete required documents to transition galley food service system to USN	4	2010	3	2011
Transition advanced USMC equipment and systems to USMC for procurement.	4	2012	3	2015
Transition advanced USN equipment and systems to USN for procurement.	4	2013	3	2015
Conduct Developmental Test and user evaluation for Mobile Kitchen Trailer	3	2009	2	2010
Conduct DT and OT on ADR P3I prototype refrigeration units	2	2012	1	2013
Update ADR P3I technical data package to transition to USAF production contract	2	2013	3	2013
Transition soft and hard shelter ESPEK prototypes to AF services. Develop TDP.	4	2009	3	2010
Conduct Milestone C and transition Battlefield Ice System to Procurement	3	2012	3	2012
Transition Solar Powered Refrigeration to Procurement	2	2012	2	2012
Transition CK P3I to RESET	2	2011	2	2011
Transition Temp Controllers for Field Kitchen Appliances to Procurement	3	2012	3	2012
Test prototype Water Cooler for Mounted Vehicles	1	2010	2	2010
Conduct Milestone C on Battlefield Kitchen	4	2014	4	2014
Conduct Navy Future Galley Modular and Seabasing Effort	4	2013	3	2015
Conduct Joint Service Refrigeration Systems Enhancement Effort	4	2013	3	2015

UNCLASSIFIED

R-1 Line Item #96

Page 28 of 29

1126 of 1922

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010																									
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604713A: <i>Combat Feeding, Clothing, and Equipment</i>		PROJECT 548: <i>MIL SUBSISTENCE SYS</i>																								
		<table> <tr> <th rowspan="2">Event</th><th colspan="2">Start</th><th colspan="2">End</th></tr> <tr> <th>Quarter</th><th>Year</th><th>Quarter</th><th>Year</th></tr> <tr> <td>Conduct DT/OT on Waste to Energy Converter</td><td align="center">4</td><td align="center">2011</td><td align="center">4</td><td align="center">2012</td></tr> <tr> <td>Conduct Milestone C on Waste to Energy Converter</td><td align="center">3</td><td align="center">2013</td><td align="center">3</td><td align="center">2013</td></tr> <tr> <td>Conduct DT/OT on CK Reset kit</td><td align="center">2</td><td align="center">2010</td><td align="center">3</td><td align="center">2010</td></tr> </table>			Event	Start		End		Quarter	Year	Quarter	Year	Conduct DT/OT on Waste to Energy Converter	4	2011	4	2012	Conduct Milestone C on Waste to Energy Converter	3	2013	3	2013	Conduct DT/OT on CK Reset kit	2	2010	3	2010
Event	Start		End																									
	Quarter	Year	Quarter	Year																								
Conduct DT/OT on Waste to Energy Converter	4	2011	4	2012																								
Conduct Milestone C on Waste to Energy Converter	3	2013	3	2013																								
Conduct DT/OT on CK Reset kit	2	2010	3	2010																								

UNCLASSIFIED