Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604713A: Combat Feeding, Clothing, and Equipment

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	2.010	2.118	2.075	-	2.075	2.109	2.136	2.149	2.176	Continuing	Continuing
548: MIL SUBSISTENCE SYS	2.010	2.118	2.075	-	2.075	2.109	2.136	2.149	2.176	Continuing	Continuing

Note

FY12: Funds realigned to higher priority Army Programs.

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)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	2.081	2.118	2.082	-	2.082
Current President's Budget	2.010	2.118	2.075	-	2.075
Total Adjustments	-0.071	_	-0.007	-	-0.007
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	_			
Congressional Adds		_			
Congressional Directed Transfers		_			
Reprogrammings	-	_			
SBIR/STTR Transfer	-	_			
Other Adjustments 1	-0.071	-	-0.007	-	-0.007

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Exhibit R-2A, RDT&E Project Just	ification: PB	3 2012 Army							DATE: Febr	uary 2011	
APPROPRIATION/BUDGET ACTIV 2040: Research, Development, Test											
BA 5: Development & Demonstration	n (SDD)			Equipment							
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
548: MIL SUBSISTENCE SYS	2.010	2.118	2.075	-	2.075	2.109	2.136	2.149	2.176	Continuing	Continuing
Quantity of RDT&E Articles											

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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Containerized Kitchen Improvements (CK RESET)	0.307	0.050	0.250
Articles:	0	0	
Description: New Containerized Kitchen layout with modular, closed combustion, thermostatically controlled appliances that reduce heat stress inside the kitchen			
FY 2010 Accomplishments: Completed design for incorporation of modular appliances.			
FY 2011 Plans: Transition final CK RESET configuration to production and to the Integrated Logistics Supply Center (ILSC) for RESET.			
FY 2012 Plans:			
Test and evaluate in accordance to TEMP. Prepare and approve ECP and transition to RESET program			
Title: Mobile Kitchen Trailer (MKT) RESET Kit	0.280	-	-
Articles:	0		
Description: Optimize appliance suite within the kitchen to effectively prepare and serve the current spectrum of operational rations.			
FY 2010 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
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	PROJEC 548: MIL	T SUBSISTEN	CE SYS	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quan	tities in Each)		FY 2010	FY 2011	FY 2012
Complete developmental and operational test and evaluation of the MK	T Reset Kit prototype.				
Title: Containerized Ice Making System (CIMS)		Articles:	-	0.452 0	0.300
Description: Provides a containerized ice making system to support ba	se camps				
FY 2011 Plans: Award contract for the design and fabrication of the prototype BISS. Col BISS prototype.	mplete fabrication and conduct test and evaluation	of the			
FY 2012 Plans: Conduct Operational test (OT) and prepare to transition to production.					
Title: Solar Power Refrigeration		Articles:	-	0.380	0.148
Description: Provides a mechanical sub cooler that will increase the op- decrease electrical draw. The reduction in electrical draw makes it a be					
FY 2011 Plans: Complete fabrication and conduct test and evaluation of the Solar Power	er Refrigeration prototype.				
FY 2012 Plans: Modify Solar Power Refrigeration prototype and conduct additional tech package.	nical testing. Prepare engineering change and tra	nsition			
Title: Food Sanitation Center (FSC).		Articles:	-	0.159	-
Description: Develop a trailer version for the ground based Food Sanita	ation Center	Articles:		U	
FY 2011 Plans: Review and validate the requirements of the preplanned product improves Establish design and evaluation criteria to meet refrigeration requirement for prototype.					
Title: Fielded Individual Ration Improvement Project (FIRIP)		Articles:	0.190 0	0.121	0.157

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fel	bruary 2011	
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 Programs (\$ in Millions, Article	Quantities in Each)		FY 2010	FY 2011	FY 2012
Description: Continuous product improvement project for the Me	al Ready to Eat (MRE)				
FY 2010 Accomplishments: Based on field test results, present recommendations to Joint Ser continued product improvement of ration components/packaging/Finalize MRE procurement documents and initiate transition to De Technical Support Group (OTSG) approval. Perform cuttings for irration quality, understand Program Change Request (PCR) require components based on user feedback, focus groups, emerging profund assemble selected new items for test. Conduct field testing/fied DOP) to improve quality, acceptability, nutrition, and expand varies	technologies for MRE (2012/2013 Date Of Procurement efense Supply Center Philadelphia (DSCP). Obtain Opendustry/Other Government Agency (OGA) to ensure contemporary and resolve vendor/supplier issues. Identify neoducts and technologies, and known user requirements. The eld evaluation of new ration components for MRE (2013).	t (DOP)). erations nsistent w Obtain			
FY 2011 Plans: Based on field test results, present recommendations to JSORF (components/packaging/ technologies for MRE (2012/2013 DOP). to DSCP. Obtain OTSG approval. Perform cuttings for industry/O requirements, and resolve vendor/supplier issues. Identify new coproducts and technologies, and known user requirements. Obtain field evaluation of new ration components for MRE (2013/2014 Devariety.	2Q10/2Q11) for continued product improvement of ratio Finalize MRE procurement documents and initiate transport to ensure consistent ration quality, understand PCF omponents based on user feedback, focus groups, ement and assemble selected new items for test. Conduct fiel	sition t ging d testing/			
FY 2012 Plans: Based on field test results, present recommendations to JSORF (components/packaging/ technologies for MRE (2013/2014 DOP). to DSCP. Obtain OTSG approval. Perform cuttings for industry/C requirements, and resolve vendor/supplier issues. Identify new coproducts and technologies, and known user requirements. Obtain field evaluation of new ration components for MRE (2013/2014 Dovariety.	Finalize MRE procurement documents and initiate transport of the ensure consistent ration quality, understand PCF emponents based on user feedback, focus groups, emendance and assemble selected new items for test. Conduct field	sition t ging d testing/			
Title: Assault/Special Purpose Ration Improvement Project (ASP	IP)	Articles:	0.190	0.126	0.125
Description: Continuous product improvement of special purpose processing and packaging.	e rations by the insertion of new technologies in nutrition		O	U	

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
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 S	SUBSISTEN	CE SYS	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	ntities in Each <u>)</u>	Γ	FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: Post field test results, present recommendations to JSORF (2Q10/2Q1 components/packaging/ technologies for Meal Cold Weather (MCW)/L (3/4). Finalize procurement documents and initiate transition to DSCP industry/OGA to ensure consistent ration quality, understand PCR required components based on user feedback, focus groups, emerging product and assemble selected new items for test. Conduct field testing/field exations, and FSR (4/5).	ong Ration Patrol (LRP) and, Survival Rations and . Obtain OTSG approval for menus. Perform cuttin uirements, and resolve vendor/supplier issues. Ider s and technologies, and known user requirements.	gs for ntify new Obtain			
FY 2011 Plans: Post field test results, present recommendations to JSORF (2Q10/2Q1 components/packaging/ technologies for MCW/LRP and, Survival Ratiinitiate transition to DSCP. Obtain OTSG approval for menus. Perform quality, understand PCR requirements, and resolve vendor/supplier is focus groups, emerging products and technologies, and known user retest. Conduct field testing/field evaluation of new ration components for	ons and FSR (3/4). Finalize procurement document cuttings for industry/OGA to ensure consistent rat sues. Identify new components based on user feed equirements. Obtain and assemble selected new it	ion back,			
FY 2012 Plans: Post field test results, present recommendations to JSORF (2Q12) for packaging/ technologies for MCW/LRP and, Survival Rations and FSR transition to DSCP. Obtain OTSG approval for menus. Perform cutting understand PCR requirements, and resolve vendor/supplier issues. Ide groups, emerging products and technologies, and known user requirer Conduct field testing/field evaluation of new ration components for MC	(3/4). Finalize procurement documents and initiat us for industry/OGA to ensure consistent ration qualentify new components based on user feedback, for nents. Obtain and assemble selected new items for	e lity, cus			
Title: Fielded Group Ration Improvement Project (FGRIP)		Articles:	0.225 0	0.126 0	0.195
Description: Continuous product improvement project to continuously packaging by integrating state-of-the-art military/commercial packaging		and			
FY 2010 Accomplishments: Present recommendations to JSORF for United Group Ration (UGR)-F (2011-2012 DOP) and UGR-Express (E) (2012-2013 DOP) for continuouttings/production tests with industry/OGA to ensure consistent ration	ed product improvement. Obtain OTSG approval.				

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Feb	oruary 2011	
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 Programs (\$ in Millions, Article Q	uantities in Each <u>)</u>		FY 2010	FY 2011	FY 2012
ration components for UGR-H&S (2013-2014 DOP), UGR-A (2012-2 and expand variety. Finalize UGR procurement documents and initi	, , , ,	quality			
FY 2011 Plans: Present recommendations to JSORF for UGR-H&S (2012-2013 DOI for continued product improvement. Obtain OTSG approval. Perforr consistent ration quality and producibility. Complete field testing of r UGR-A (2012-2013 DOP) and UGR-E (2013-2014 DOP) to improve documents and initiate transition to DSCP.	m cuttings/production tests with industry/OGA to ensunew ration components for UGR-H&S (2013-2014 DC	re P),			
FY 2012 Plans: Present recommendations to JSORF for UGR-H&S (2013-2014 DOI for continued product improvement. Obtain OTSG approval. Perforr consistent ration quality and producibility. Complete field testing of r UGR-A (2013-2014 DOP) and UGR-E (2014-2015 DOP) to improve documents and initiate transition to DSCP.	m cuttings/production tests with industry/OGA to ensunew ration components for UGR-H&S (2014-2015 DC	re P),			
Title: Future Navy Galleys / Hatchable Submarine Galley		Articles:	0.398 0	0.233 0	-
Description: Provide consolidated galley design and advanced tech both surface ships and submarines.	nnologies that support the Navy optimized crewing pla	n for			
FY 2010 Accomplishments: Coordinate with the Navy to determine future manning and feeding r technologies; evaluate/test food service equipment; and integrate fo optimized crewing encompassing a total systems design and approximately contained to the contained contained contained to the contained contained contained to the contained c	od service equipment into complete galleys that will s				
FY 2011 Plans: Complete all required Technical Data Package (TDP) documents an systems to the Navy for procurement and fielding.	nd specification requirements to transition galley food	service			
Title: Naval Refrigeration Project		Articles:	-	0.109	-
Description: Develop Naval Refrigeration to provide adequate and ship.					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fel	bruary 2011	
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 Programs (\$ in Millions, Article	e Quantities in Each)		FY 2010	FY 2011	FY 2012
FY 2011 Plans: Use information from Navy shipboard refrigeration / ice consump Produce Improvement (CPI) project for Navy shipboard refrigera	• • • • • • • • • • • • • • • • • • • •	s			
Title: Future Navy Galley / Hatchable Submarine Galley		Articles:	-	0.210 0	-
Description: Provide consolidated galley design and advanced both surface ships and submarines.	technologies that support the Navy optimized crewing pla	an for			
FY 2011 Plans: Complete all evaluations on submarine based equipment and ma (NAVSEA) for use in the Naval Shipboard Catalog. After approvadeveloped for the equipment and then transitioned to Submarine change documentation.	al from NAVSEA, Commercial Item Description (CID)s wi				
Title: Electric Single Pallet Expeditionary Kitchen (ESPEK)		Articles:	0.176 0	-	-
Description: Develop a compact, self contained, all electric, exp	peditionary kitchen to prepare and serve 550 UGR-H&S				
FY 2010 Accomplishments: Upgrade prototypes based on testing results. Transition soft she Kitchen (ESPEK) prototypes to Air Force Services. Develop Tec					
Title: Modernization and Implementation of the Air Force Basic E	Expeditionary Airfield Resources (BEAR)	Articles:	0.244 0	-	-
Description: Provide Air Force new electric food service equipm systems to support AF BEAR field feeding.	nent; and implementation plan to support the initial (i) / fol	low-on (f)			
FY 2010 Accomplishments: Provide complete BEAR-550 prototype field kitchen system to a Transition Technical Data Package (TDP) that includes design, Ic Command and the BEAR Program Management Office (PMO) to	ayout, and recommended equipment items to Air Force S				
Title: Modular Appliances for Field Feeding (MAFF)			-	-	0.300

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
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 S			
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2010	FY 2011	FY 2012
Description: Provide a suite of common, man portable, high efficience accross the spectrum of field feeding and base camp operation.		ances for			
FY 2012 Plans: Transition MAFF from 6.4 funding and conduct Developmental Te	est (DT) and Operational Test (OT) on modular applianc	es.			
Title: Thermostatic Control for Modern Burner Unit (MBU)		Articles:	-	0.094 0	0.175
Description: Imbed a thermostatic control within the MBU to allo temperature by cycling the MBU on and off automatically	ow the kitchen appliance temperature to be regulated at a	set			
FY 2011 Plans: Integrate thermostatic control into the MBU control panel, simplify between failure time for Modern Burner Unit	y electronic operation and control analogs, increase mea	ns			
FY 2012 Plans: Complete testing and evaluation of integrated thermal control and	d transition to procurement.				
Title: Product Improvements for Fielded Food Service Equipmen	nt and System, all services.	Articles:	-	0.058 0	-
Description: Improvements to secondary food service equipmen	nt items based on issues reported from the joint services				
FY 2011 Plans: Product Improvements for Fielded Food Service Equipment and	System, all services.				
Title: Automated Shipboard Dishwashing System			-	-	0.275
Description: Provides an automated dishwashing system that al manning requirements for future Navy platforms.	lleviates the manual labor involved in dishwashing and re	educes			
FY 2012 Plans: Integrate & evaluate Phase III SBIR production model onboard a procurement.	n Aircraft Carrier and transition final system to PEO Carr	iers for			
Title: Ration Airdrop Survivability			-	-	0.150

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604713A: Combat Feeding, Clothing, and	548: MIL S	UBSISTENCE SYS
BA 5: Development & Demonstration (SDD)	Equipment		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: Provides updated high velocity airdrop performance characteristics for current ration configurations/designs, identifies ration survival rates for defined operational conditions critical to mission planning and effectiveness, and offers insight into capability gaps that might warrant revision to use protocol or appropriate product redesign and reengineering.			
FY 2012 Plans: Redesign components/ menus for retest, reassessment and recommendations for transition of improved, more survivable (via airdrop) rations.			
Accomplishments/Planned Programs Subtotals	2.010	2.118	2.075

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

	•		FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• 603747: Food Adv Dev	4.045	4.234	3.843		3.843		4.131	4.343	4.292	Continuing	Continuing
M65803: Kitchen, Containerized,	23.561									0.000	23.561
Field											
M65802: Sanitation Center, Field	3.507									0.000	3.507
Feeding											

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.

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 PE 0604713A: Combat Feeding, Clothing, and 548: MIL SUBSISTENCE SYS BA 5: Development & Demonstration (SDD) Equipment FY 2012 FY 2012 FY 2012 Management Services (\$ in Millions) oco **FY 2011** Base Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Date Cost Date Cost Date Complete **Total Cost** Contract & Type Cost Cost **CFP Management** C/FP RDECOM:Natick. MA 1.404 0.223 0.219 0.219 Continuina Continuina Continuina Subtotal 1.404 0.223 0.219 0.219 FY 2012 FY 2012 FY 2012 **Product Development (\$ in Millions)** FY 2011 Base oco Total **Total Prior** Target Contract Years Method Performing Award Award Award Cost To Value of **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Various combat feeding C/FP Continuing Continuing equipment, multi fuel and RDECOM:Natick, MA 1.404 1.055 1.031 1.031 Continuing water equipment Continuing DOD Field Feeding Equipment C/FP Continuing Various: Various 2.291 0.280 0.275 0.275 Continuing PM Force Sustainment Army Field Feeding Continuing Continuing C/FP Systems (FSS):Natick, 1.483 0.215 0.211 0.211 Continuing **Equipment Development** MA 1.550 1.517 1.517 Subtotal 5.178 FY 2012 FY 2012 FY 2012 Test and Evaluation (\$ in Millions) FY 2011 oco Total Base Contract **Total Prior** Target Method Performing Cost To Value of Years Award Award Award **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract TECOM/OEC/ Various 0.345 0.339 0.339 Continuing Continuing Various 2.341 Continuing ATC:Warren MI 2.341 0.345 0.339 0.339 Subtotal _ **Total Prior** Target FY 2012 FY 2012 FY 2012 Cost To Value of Years FY 2011 oco Complete Cost Base Total **Total Cost** Contract **Project Cost Totals** 2.118 2.075 2.075 8.923

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Remarks

	FY 2010				F\	Y 2011	1	 Y 20	12		FV	201	3		FY 2	014			FY 20	115		 Y 20	116
	1			4 1		2 3	_	 	3 4	1	1 2	_	_	1	2	3	4	1			4	 2	
ransition Technical Data Package to USAF to rocure complete kitchen systems)					l		 										l	I		I		
Complete required documents to transition alley food service system to USN																							
ransition Solar Powered Refrigeration to Procurement																							
ransition CK P3I to RESET																							
ransition Temp Controllers for Field Kitchen ppliances to Procurement																							
Conduct Navy Future Galley Modular and Seabasing Effort																							
Conduct Joint Service Refrigeration Systems inhancement Effort																							
Conduct DT/OT on CK Reset kit																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0604713A: Combat Feeding, Clothing, and 548: MIL SUBSISTENCE SYS

BA 5: Development & Demonstration (SDD) Equipment

Schedule Details

	St	art	End				
Events	Quarter	Year	Quarter	Year			
Transition Technical Data Package to USAF to procure complete kitchen systems	1	2010	3	2010			
Complete required documents to transition galley food service system to USN	4	2010	3	2011			
Transition Solar Powered Refrigeration to Procurement	2	2013	2	2013			
Transition CK P3I to RESET	2	2012	2	2012			
Transition Temp Controllers for Field Kitchen Appliances to Procurement	3	2013	3	2013			
Conduct Navy Future Galley Modular and Seabasing Effort	4	2013	3	2015			
Conduct Joint Service Refrigeration Systems Enhancement Effort	4	2011	3	2013			
Conduct DT/OT on CK Reset kit	2	2011	3	2011			