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**Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / Combat Feeding, Clothing, and Equipment
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	1.598	1.566	2.223	-	2.223	1.620	1.622	1.639	1.658	0.000	11.926
548: Mil Subsistence Sys	-	1.598	1.566	2.223	-	2.223	1.620	1.622	1.639	1.658	0.000	11.926

**A. Mission Description and Budget Item Justification**

Projects under this Program Element support the development, demonstration and Non-Developmental Item (NDI) Commercial Off The Shelf (COTS) evaluation of combat feeding equipment to enhance soldier efficiency, improve soldier survivability, and reduce food service logistics requirements for all four services. These Projects support multi-fuel, rapidly deployable field food service equipment initiatives. Efforts also support the Engineering and Manufacturing Development (EMD) phase of programs to improve equipment, enhance safety in food service, and decrease fuel and water requirements. The Projects develop critical enablers that support the Joint Future Capabilities and Joint Expeditionary mindset, by maintaining readiness through integrating new equipment, enhancing the field soldier's well-being, and providing soldiers usable equipment. The Projects 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	1.658	1.566	2.270	-	2.270
Current President's Budget	1.598	1.566	2.223	-	2.223
Total Adjustments	-0.060	0.000	-0.047	-	-0.047
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.060	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.047	-	-0.047

**Change Summary Explanation**

Decreased funding to support higher Army priorities.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
548: <i>Mil Subsistence Sys</i>	-	1.598	1.566	2.223	-	2.223	1.620	1.622	1.639	1.658	0.000	11.926
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

This Project enables system development and demonstration of Joint Service combat rations and field feeding equipment/systems designed to improve warfighter performance and reduce the logistics burden of subsistence support. Efforts funded in this Project support all four Services, the Special Operations Command, and the Defense Logistics Agency (DLA). The Army serves as the Executive Agent for this Department of Defense (DoD) program, with oversight and coordination provided by the DoD Combat Feeding Research and Engineering Board (CFREB) as required by DoD Directive (DoDD) 3235.02E. Centralized execution of the DoD Combat Feeding Research and Engineering Program (CFREP) with Joint Service review and approval eliminates unnecessary duplication of efforts across the Services and maximizes use of common materiel solutions.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Joint Service Combat Ration System Development	0.884	1.238	1.186
<p><b>Description:</b> This effort integrates and demonstrates mature Joint Service combat ration systems that enable warfighter maneuver, readiness and effectiveness during highly mobile, dispersed operations. Prototypes are transitioned from APE 0603747A Project 610 to develop individual and group combat rations with improved capabilities including improved warfighter physical and cognitive performance through optimized nutrition and reduced logistics burden through weight and cube reduction. This effort completes operational test and evaluation (OT&amp;E) to confirm system level performance, and develops ration specifications for transition to Defense Logistics Agency - Troop Support (DLA - Troop Support) for procurement.</p> <p><b>FY 2023 Plans:</b> For existing ration platforms (Meal, Ready-to-Eat; Close Combat Assault Ration; Unitized Group Rations - A/M/H&amp;S), integrate prototype components/technologies into menu systems and ration assembly processes to improve quality, optimize nutritional content, decrease weight/cube/cost and/or improve modularity and field utility; continue to conduct OT&amp;E on ration systems to validate system level performance; present recommendations to the Joint Services for Milestone C approval; finalize procurement documents and initiate transition to DLA-Troop Support; obtain US Army, Surgeon General approval of revised menus; execute production testing with industry to ensure consistent ration quality, validate documents, and resolve vendor/supplier technical production issues; and conduct confirmatory sensory, chemical, physical and shelf life testing. For developmental EGR, present to the JSORF for Milestone C approval and develop Technical Data Packages (TDP's) for procurement documents. Conduct OT&amp;E of through the mask feeding system to enable safe feeding capabilities in hazardous environments</p> <p><b>FY 2024 Plans:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>For existing operational ration platforms (Meal, Ready-to-Eat; Close Combat Assault Ration; Unitized Group Rations - A/M/Heat&amp;Serve, Expeditionary Group Ration), will integrate prototype components/technologies into menu systems and ration assembly processes to improve quality, optimize nutritional content, decrease weight/cube/cost and/or improve modularity and field utility; will continue to conduct OT&amp;E on ration systems to validate system level performance; will present recommendations to the Joint Services for Milestone C approval; will finalize procurement documents and initiate transition to DLA-Troop Support; will obtain US Army, Surgeon General approval of revised menus; will execute production testing with industry to ensure consistent ration quality, validate documents, and resolve vendor/supplier technical production issues; and will conduct confirmatory sensory, chemical, physical and shelf life testing, in addition to complete nutrient analysis.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding change reflects planned lifecycle of this effort, for OT&amp;E in support of operational ration procurements.</p>				
<p><b>Title:</b> Joint Service Field Feeding Systems Development</p> <p><b>Description:</b> This effort integrates and demonstrates field feeding equipment systems in support of the Navy (USN), Air Force (USAF), and Marine Corps (USMC) that reduce the logistics burden, improve efficiency, and decrease operation and support costs as directed by the DoD CFREB and Joint Service partners. Validated systems, specifications, and technical data packages are transitioned to the appropriate Service partner for procurement and fielding. Service partners include Product Manager Combat Support Equipment (PdM-CSE), Naval Sea Systems Command (NAVSEA), Naval Supply Systems Command (NAVSUP), Navy Expeditionary Combat Command (NECC) and USAF Basic Expeditionary Airfield Resources (BEAR) Program Office.</p> <p><b>FY 2023 Plans:</b> Conduct OT&amp;E the Expeditionary Field Feeding Equipment System to reduce logistics requirements for squad feeding; and transition validated prototype equipment and technical data to USMC.</p> <p><b>FY 2024 Plans:</b> Will complete system fabrication and integration of upgraded Expeditionary Field Kitchen in support of DT&amp;E and Limited User Testing; Will finalize technical data package for Expeditionary Field Feeding Equipment System and transition package to DLA-TS for procurement and sustainment; Will complete DT&amp;E of Joint Air Containerized Kitchen Systems for air transportability and deliver systems to USAF for limited user evaluations; In support of Navy galley operations, will award contracts and initiate T&amp;E for bakery equipment, to increase equipment diagnostics and automation, while reducing labor requirements.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase supports OT&amp;E for upgrades to field feeding equipment systems.</p>		0.714	0.271	1.037
<p><b>Title:</b> SBIR/STTR Transfer</p>		-	0.057	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Description:</b> Funding transferred in accordance with Title 15 USC §638.			
<b>FY 2023 Plans:</b> Funding transferred in accordance with Title 15 USC §638.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC §638.			
<b>Accomplishments/Planned Programs Subtotals</b>	1.598	1.566	2.223

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 610: <i>Food Adv Development</i>	2.791	4.060	3.550	-	3.550	4.154	4.160	4.204	4.251	0.000	27.170

**Remarks**

**D. Acquisition Strategy**

Complete Engineering and Manufacturing Development (EMD) and Demonstration of food items and equipment for transition into competitive procurement contract.  
Complete advanced research efforts to support Engineering Change Proposals for previously developed equipment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army												Date: March 2023				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)							
2040 / 5				PE 0604713A / Combat Feeding, Clothing, and Equipment					548 / Mil Subsistence Sys							
<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Combat Feeding Program Management	C/FP	CCDC Soldier Center : Natick, MA	4.464	0.388	Oct 2021	0.350	Oct 2022	0.111	Oct 2023	-		0.111	Continuing	Continuing	Continuing	
SBIR/STTR Transfer	TBD	Various : Various	-	-		0.057	Feb 2023	-		-		-	0.000	0.057	-	
<b>Subtotal</b>			4.464	0.388		0.407		0.111		-		0.111	Continuing	Continuing	N/A	
<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Joint Service Rations and Combat Feeding Equipment	Various	Various : Various	7.071	0.163	Oct 2021	0.148	Oct 2022	0.211	Oct 2023	-		0.211	Continuing	Continuing	Continuing	
<b>Subtotal</b>			7.071	0.163		0.148		0.211		-		0.211	Continuing	Continuing	N/A	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Joint Service Rations and Combat Feeding Equipment	Allot	CCDC Soldier Center : Natick, MA	3.974	1.047	Oct 2021	1.011	Oct 2022	1.901	Oct 2023	-		1.901	Continuing	Continuing	Continuing	
<b>Subtotal</b>			3.974	1.047		1.011		1.901		-		1.901	Continuing	Continuing	N/A	
<b>Project Cost Totals</b>			15.509	1.598		1.566		2.223		-		2.223	Continuing	Continuing	N/A	
<b>Remarks</b>																

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date: March 2023</b>		
<b>Appropriation/Budget Activity</b> 2040 / 5		<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>		<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>	

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028							
	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				
Conduct operational testing of combat ration systems	[Blue bar]																															
Conduct OT&E of Close Combat Assault Ration (CCAR)	[Blue bar]																															
Obtain Joint Service and Army Surgeon General approval o...	[Blue bar]																															
Develop CCAR Technical Data Package and contract for Low...	[Blue bar]																															
Develop and transition CCAR documents to DLA-TS for proc...	[Blue bar]																															
Conduct OT&E of Expeditionary Group Ration (EGR)					[Blue bar]																											
Develop and transition EGR documents to DLA-TS for procu...					[Blue bar]				[Blue bar]																							
Obtain Joint Service and Army Surgeon General approval o...									[Blue bar]																							
Conduct OT&E of through the mask feeding system					[Blue bar]																											
Develop and transition individual and group ration docum...	[Blue bar]																															
Obtain Joint Service and Army Surgeon General approval o...	[Blue bar]																															
Conduct OT&E & transition labor & energy saving bakery u...									[Blue bar]				[Blue bar]																			
Conduct OT&E of Energy Conversation technologies for BEA...													[Blue bar]																			

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
Conduct OT&E of expeditionary kitchen systems for shore-...																												
Conduct OT&E of IRefS and transition to Services																												
Conduct OT&E of EFK upgrades and transition to USMC																												
Conduct OT&E of intuitive kitchen and galley equipment; ...																												
Conduct OT&E of EFFES at the squad/platoon level																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	<b>Project (Number/Name)</b> 548 / <i>Mil Subsistence Sys</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Conduct operational testing of combat ration systems	1	2018	4	2028
Conduct OT&E of Close Combat Assault Ration (CCAR)	1	2020	4	2022
Obtain Joint Service and Army Surgeon General approval of first generation CCAR	3	2021	2	2022
Develop CCAR Technical Data Package and contract for Low Rate Initial Production	3	2021	1	2022
Develop and transition CCAR documents to DLA-TS for procurement	1	2022	2	2022
Conduct OT&E of Expeditionary Group Ration (EGR)	1	2023	4	2023
Develop and transition EGR documents to DLA-TS for procurement	2	2023	4	2024
Obtain Joint Service and Army Surgeon General approval of EGR	2	2024	3	2024
Conduct OT&E of through the mask feeding system	1	2023	4	2023
Develop and transition individual and group ration documents annually to DLA-TS	1	2018	4	2028
Obtain Joint Service and Army Surgeon General approval of MORE Performance Pack	2	2022	3	2022
Conduct OT&E & transition labor & energy saving bakery upgrades to USN	1	2024	4	2025
Conduct OT&E of Energy Conversation technologies for BEAR kitchens to USAF	1	2025	4	2025
Conduct OT&E and transition Mobile Feeding Galley to USN	1	2020	3	2020
Conduct OT&E & transition labor & energy saving galley/scullery upgrades to USN	1	2020	4	2021
Conduct OT&E of expeditionary kitchen systems for shore-based Navy units	1	2022	4	2022
Conduct OT&E of Improved Tray Ration Heater and transition to USMC	1	2020	4	2021
Obtain Aerial Delivery Certification of Inflatable Refrigerated Space (IRefS)	1	2020	4	2021
Conduct OT&E of IRefS and transition to Services	1	2021	4	2022
Conduct OT&E of EFK upgrades and transition to USMC	1	2024	4	2025
Conduct OT&E of intuitive kitchen and galley equipment; transition to Services	1	2021	4	2022
Conduct OT&E of EFFES at the squad/platoon level	1	2022	4	2024