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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army | Date: February 2015 |
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| Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD) | | | | | R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment | | | | | | | |
|---|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| Total Program Element | - | 1.874 | 3.034 | 1.763 | - | 1.763 | 2.466 | 2.608 | 2.430 | 2.457 | Continuing | Continuing |
| 548: Mil Subsistence Sys | - | 1.874 | 3.034 | 1.430 | - | 1.430 | 0.961 | 0.550 | 0.652 | 1.319 | Continuing | Continuing |
| EL2: Army Field Feeding Equipment | - | - | - | 0.333 | - | 0.333 | 1.505 | 2.058 | 1.778 | 1.138 | - | 6.812 |

Note

FY16: Funds realigned to higher priority Army Programs. The FY 2016 funding request was reduced by \$.463 million to account for the availability of prior year execution balances.

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 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 1.938 | 1.335 | 2.239 | - | 2.239 |
| Current President's Budget | 1.874 | 3.034 | 1.763 | - | 1.763 |
| Total Adjustments | -0.064 | 1.699 | -0.476 | - | -0.476 |
| • Congressional General Reductions | -0.064 | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | 1.699 | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Adjustments to Budget Years | - | - | -0.476 | - | -0.476 |

UNCLASSIFIED

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|--|-------------|---------|---------|--------------|--|---------------|---------|---------|--|---------------------|------------------|------------|
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| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment | | | | Project (Number/Name) 548 / Mil Subsistence Sys | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| 548: Mil Subsistence Sys | - | 1.874 | 3.034 | 1.430 | - | 1.430 | 0.961 | 0.550 | 0.652 | 1.319 | 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) | | | | | | | | | FY 2014 | FY 2015 | FY 2016 | |
| Title: Containerized Kitchen Modernization (CK) | | | | | | | | | 0.380 | 0.312 | - | |
| Description: New Containerized Kitchen layout with modular, closed combustion, thermostatically controlled appliances that reduce heat stress inside the kitchen | | | | | | | | | | | | |
| FY 2014 Accomplishments: Mitigated the effects of CK generator obsolescence through the expedited integration of the Advanced Medium Mobile Power Source (AMMPS). Awarded contract for the design and integration of the AMMMPS into legacy CKs. Drafted modification work order to capture design baseline and find costs, level of effort to modify CK fleet with AMMPS | | | | | | | | | | | | |
| FY 2015 Plans: Upgrade the Containerized Kitchen with improved layout, appliances, ventilation and power generation for improved energy efficiency and operator environment. Use completed initial design to integrate the Advanced Medium Mobile Power Source (AMMPS) into the CK. Perform testing to validate generator interface, interoperability and performance with the CK. Develop technical data to support required Engineering Change Proposal to current system. | | | | | | | | | | | | |
| Title: Fielded Individual Ration Improvement Project (FIRIP) | | | | | | | | | 0.150 | 0.430 | 0.299 | |
| Description: Continuous product improvement project for the Meal Ready to Eat (MRE) | | | | | | | | | | | | |
| FY 2014 Accomplishments: | | | | | | | | | | | | |

UNCLASSIFIED

| | | | |
|---|--|--|----------------|
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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 |
| Based on field test results, presented recommendations to Joint Services (2Q14) for continued product improvement of ration components/packaging/technologies for MRE (2016 DOP). Finalized MRE procurement documents and initiated transition to Defense Logistic Agency (DLA) Troop Support. Obtained Surgeon General approval of revised MRE menus. Executed production testing with industry to ensure consistent ration quality, understand PCR requirements, and resolved vendor/supplier issues. Obtained and assembled selected new items for field test. Conducted field evaluation of new candidate ration components for MRE (2017 DOP) to improve quality, acceptability, nutrition and expand variety. | | | |
| FY 2015 Plans: Based on field test results, present recommendations to Joint Services (2Q15) for continued product improvement of ration components/packaging/technologies for MRE (2017 DOP). Finalize MRE procurement documents and initiate transition to DLA-TS. Obtain Surgeon General approval of revised MRE menus. Execute production testing with industry to ensure consistent ration quality, understand Project Change Request (PCR) requirements, and resolve vendor/supplier issues. Obtain and assemble selected new items for field test. Conduct field evaluation of new candidate ration components for MRE (2018 DOP) to improve quality, acceptability, nutrition and expand variety. | | | |
| FY 2016 Plans: Based on Budget Activity 4 (BA4) Joint Service approvals, finalize MRE procurement documents and standards for verification for MRE (2018 DOP) and initiate transition to DLA-Troop Support. Obtain Surgeon General approval of revised MRE menus. Execute production testing with industry to ensure consistent ration quality, understand PCR requirements, resolve vendor/supplier issues, and conduct confirmatory sensory, chemical, physical and shelf life testing. | | | |
| Title: Assault/Special Purpose Ration Improvement Project (ASPIP) | | 0.101 | 0.175 |
| Description: Continuous product improvement of special purpose rations by the insertion of new technologies in nutrition, processing and packaging. | | | 0.080 |
| FY 2014 Accomplishments: Continued on-going shelf life studies of candidate Meal, Cold Weather/Long-Range Patrol and Modular Operational Ration Enhancement components and updated procurement documents for transition to Defense Logistics Agency Troop Support. | | | |
| FY 2015 Plans: Continue on-going shelf life studies of candidate Meal, Cold Weather/Long-Range Patrol and Modular Operational Ration Enhancement components and updated procurement documents for transition to Defense Logistics Agency Troop Support (DLA-TS). | | | |
| FY 2016 Plans: | | | |

UNCLASSIFIED

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|---|--|--|----------------|
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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 |
| Plan field evaluation of new ration components for FSR. Present recommendations to Joint Services (2Q16) for continued product improvement of ration components/packaging/technologies for First Strike Ration (FSR). Obtain Surgeon General approval for the nutritional content of revised menus and components. | | | |
| Title: Fielded Group Ration Improvement Project (FGRIP) 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 2014 Accomplishments: Based on Warfighter testing, presented results/recommendations to Joint Services for Unitized Group Ration Heat and Serve (UGR-H&S/E) (2015 DOP). Presented UGR-A results/recommendations to the UGR Integrated Product Team for FY15 menus. Updated/coordinated menus and obtained Surgeon General approval. Provided assistance to DLA Troop Support for Limited First Article production testing of newly approved UGR-H&S/E items. Finalized UGR procurements documents for transition to DLA - Troop Support. FY 2015 Plans: Complete field testing of UGR-H&S/E (2016/17 DOP) and UGR-A (FY17 menus) to improve quality, nutritional intake and expand variety. Finalize UGR procurement documents for transition to DLA-TS. FY 2016 Plans: Based on BA4 Joint Service approvals, finalize UGR (A, H&S, E) procurement documents and standards for verification and initiate transition to DLA-Troop Support. Obtain Surgeon General approval of revised UGR menus. Support DLA-Troop Support Limited First Article production testing of new H&S and E items with industry to ensure consistent ration quality, understand PCR requirements, resolve vendor/supplier issues, and conduct confirmatory sensory, chemical, physical and shelf life testing. | | 0.165 | 0.356 |
| Title: Group Ration Airdrop Survivability Project (GRASP) Description: Quantify baseline airdrop performance characteristics for current group combat ration (UGR-H&S/M/E) configurations/designs; identify survival rates (based on caloric loss and packaging damage/loss) under defined operational conditions; provide knowledge base and supporting data to generate executable load configuration changes; identify capability gaps that might warrant product/package/assembly configuration redesign and reengineering. FY 2015 Plans: | | - | 0.072 |
| | | | - |

UNCLASSIFIED

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 |
| Extensive airdrop testing to determine UGR components, packaging and assembly configurations with the highest survival rates. Perform cost/benefit analysis of current vs. proposed reconfigurations. Transition updated technical data to DLA-Troop Support and Airdrop partners. | | | |
| Title: Navy Shipboard Galleys Description: Provide continuous Research and Development (R&D) for Navy Shipboard Galleys for state-of-the-art Galley designs and equipment technologies; support Naval Supply Systems Command (NAVSUP) foodservice equipment standardization plan; integrate automated technology such as, prognostics, diagnostics, and reliability tracking FY 2014 Accomplishments: Identified requirements and metrics for Galley refrigeration assets and procured commercial equipment. Conducted evaluations on commercial refrigeration capability under simulated Navy afloat operations against established requirements metrics. FY 2015 Plans: Conduct in-house test and evaluation of equipment prioritized by Navy; Instrument equipment for reliability evaluations and support for ship board evaluations; transition reports to NAVSUP/NAVSEA. Procure, test and evaluate a hydroponic system to grow fresh produce aboard ballistic submarines for increased quality of life and nutrition for submarine Sailors. FY 2016 Plans: Preliminary Design Review/Critical Design Review (PDR/CDR) reviews; Instrument equipment for Condition-Based Maintenance; Conduct T&E of modified COTS equipment in accordance with NAVSEA test criteria; Complete at-sea user evaluations and technical data package for transition to Navy; | | 0.183 | 0.310 |
| Title: Integrated Thermal Control into Modern Burner Unit (MBU) Description: Imbed a thermostatic control within the MBU to allow the kitchen appliance temperature to be regulated at a set temperature by cycling the MBU on and off automatically. FY 2014 Accomplishments: Conducted Operational Testing (OT) on prototype. Based on a successful evaluation and concurrence from the customer, CASCOM, a new National Stock Number (NSN) for the integrated MBU was assigned for procurement through DLA Troop Support. | | 0.240 | - |
| Title: Armed Forces Recipe Service | | - | 0.600 |

UNCLASSIFIED

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|--|--|--|----------------|
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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 |
| <p>Description: Demonstrate and validate standardized recipes to be utilized by the Services in food service and operational settings. Develop and deliver specifications to the Armed Forces Recipe Committee for approval. Specifications will populate the Armed Forces Management Information System (AFMIS), a system utilized by all DoD Components.</p> <p>FY 2015 Plans: Complete transition to new recipe development/nutritional analysis software. Conduct nutritional analysis of deliverables. The output of this project facilitates implementation of nutritional initiatives such as Go for Green and Healthy Base Initiative.</p> | | | |
| <p>Title: Joint Services Refrigerated Container System</p> <p>Description: To develop and field a highly expandable, highly efficient TriCon refrigerated container system that utilizes adaptable advanced technologies (i.e. smart power metering, novel insulation, polychromatic coatings, composites, and alternate energy sources) to enable the safe/proper storage of perishable group rations in forward deployed areas.</p> <p>FY 2014 Accomplishments: Conducted Developmental Testing at Aberdeen Proving Grounds (APG). Conducted User Evaluations with all Services.</p> | | 0.151 | - |
| <p>Title: Basic Expeditionary Airfield Resources (BEAR) Kitchen System Enhancements (BEAR-KSE)</p> <p>Description: The BEAR-KSE will evaluate multifunction appliances, reduce pallet positions, and develop TriCon and BiCon packing plans to meet the Air Forces transportability requirements of 30% by air and 70% by land, sea, and rail.</p> <p>FY 2014 Accomplishments: Completed in-house evaluation of the food service equipment, which met Air Force requirements for a lighter, leaner, more rapidly deployable system. Developed 3-D models and conduct pack-out assessments to support transportability requirements of 30% by air and 70% by land, sea, and rail. Transitioned data to PM-BEAR</p> | | 0.294 | - |
| <p>Title: Autonomous Shipboard Cleaning System</p> <p>Description: Provides an automated dishwashing system that alleviates the manual labor involved in dishwashing and reduces manning requirements for future Navy platforms.</p> <p>FY 2014 Accomplishments: Finalized development of prototype developed under Phase II under the Phase III development effort. Documented results of FY14 land-based testing at Natick Soldier Research Development and Engineering Center (NSRDEC). Identified if need for</p> | | 0.210 | - |

UNCLASSIFIED

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 |
| additional testing exists. Performed enhanced simulation testing and demonstrations of the upgraded prototypes at Naval Surface Warfare Center's test facilities. | | | |
| Title: Block Upgrades and Operational Improvements for Expeditionary Field Feeding Equipment Description: Eliminate the sole sourcing of tray ration heater component parts. Reduce overall water consumption through the use of non-immersive cooking technologies and more efficient ware-washing equipment. Increase Kitchen flexibility through appliance upgrades. To reduce the overall fuel consumption of Expeditionary Field Feeding Equipment by minimizing the production of and making use of the waste heat produced through JP-8 combustion. FY 2015 Plans: Conduct root cause failure analysis on Modernized Tray Ration Heater (MTRHS) prototype. Conduct operational test and evaluation on field feeding equipment. Complete approved Engineering Changes to upgrade the capability of the Expeditionary Field Kitchen. | | - | 0.320 |
| Title: Support to Air Force Field Feeding Modernization Efforts Description: Provide continuous R&D efforts for all Expeditionary Air Force squadrons. Modernize and standardize field foodservice equipment to reduce labor, maintenance, pack-out volume and cost. Increase reliability, efficiency and sustainability. Develop comprehensive specifications and technical data packages for recommended Food Service Equipment (FSE) items; test and evaluate newer commercial FSE items for expeditionary use and smaller transportation footprint; develop total overall life cycle cost of each system; test Energy Star certified FSE items that use less power; and investigate/develop appliances that use less water, increase competition on standardized designs FY 2015 Plans: Provide continuous R&D efforts for all Expeditionary Air Force squadrons. Increase reliability, efficiency and sustainability. Provide operational test and evaluation support to the BEAR community to develop or edit equipment purchase descriptions, participate in source selection evaluations, provide technical documents to support the contract award process and participate in the design reviews. FY 2016 Plans: Complete preliminary design review (PDR); Initiate BEAR Kitchen Final Design Review; Conduct user Test & Evaluation of proposed equipment; Draft technical test reports and provide to Air Force for review. | | - | 0.240 |
| Title: Joint Inter-service Field Feeding Burner | | - | 0.169 |

UNCLASSIFIED

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| B. Accomplishments/Planned Programs (\$ in Millions) | | | | | | | | | FY 2014 | FY 2015 | FY 2016 |
| Description: Develop, demonstrate and validate a Joint-Service, government owned JP-8 burner for field kitchen appliances. Government will control configuration, procurement, and support decisions. Establishment of a Commercial Off The Shelf (COTS) parts list using widely supportable supply chain in field operations. | | | | | | | | | | | |
| FY 2015 Plans: Build beta units; prepare Tech Data Package; test units in a high fidelity, realistic operating environment and conduct Integrated Logistic Support (ILS) validation. Transitional information appropriately. | | | | | | | | | | | |
| Title: Navy Food Storage Analysis Tool | | | | | | | | | - | 0.050 | 0.285 |
| Description: Software analysis tool for Navy Foodservice that will automatically calculate all storage space factors and requirements for naval vessels based off the specific Navy Standard Core Menu (NSCM), crew size, Naval Ship's Technical Manual 096, Weights and Stability, Naval Vessel Requirements Food Service Facility Design Manual, Build Specifications 671, 672, and Type Commander established endurance levels; Will develop automated subsistence inventory management, tracking and storeroom locations for all storage areas with mobile scanning technology capability; | | | | | | | | | | | |
| FY 2015 Plans: Expand NFSAT capabilities to include Landing Platform Docking (LPD) amphibious warfare ship class and the Littoral Combat Ship (LCS) class. | | | | | | | | | | | |
| FY 2016 Plans: Complete Alpha version of Navy subsistence inventory management software; and Conduct test and evaluation of Alpha version of the software | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | | 1.874 | 3.034 | 1.430 |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • RDT&E 643747.610: Food Adv Dev 643747.610 | 5.013 | 3.480 | 0.021 | - | 0.021 | 5.598 | 6.803 | 5.043 | 4.713 | Continuing | Continuing |
| • RDT&E 643747.EL1: Army Field Feeding Programs | - | - | 0.280 | - | 0.280 | 1.974 | 0.452 | - | 0.509 | Continuing | Continuing |
| • RDT&E 654713.EL2: Army Field Feeding Equipment | - | - | 0.333 | - | 0.333 | 1.505 | 2.058 | 1.778 | 1.138 | Continuing | Continuing |

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| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| <u>Line Item</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2016</u> <u>Base</u> | <u>FY 2016</u> <u>OCO</u> | <u>FY 2016</u> <u>Total</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>Cost To</u> <u>Complete</u> | <u>Total Cost</u> |
| • OPA M65806: Assault Kitchen, Field Feeding M65806 | 0.423 | 4.889 | 3.632 | - | 3.632 | 5.167 | 4.660 | 4.165 | 4.605 | Continuing | Continuing |
| 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 Engineer Change Proposals for previously developed equipment. | | | | | | | | | | | |
| E. Performance Metrics | | | | | | | | | | | |
| N/A | | | | | | | | | | | |

UNCLASSIFIED

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army | | | | | | | | | | | | Date: February 2015 | | | |
|--|------------------------|---|-------------|---------|------------|---|------------|--------------|------------|---|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 2040 / 5 | | | | | | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | | | | Project (Number/Name) 548 / <i>Mil Subsistence Sys</i> | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| CFP Management | C/FP | RDECOM : Natick, MA | 2.197 | 0.233 | Apr 2014 | 0.164 | | 0.233 | | - | | 0.233 | - | 2.827 | Continuing |
| SBIR+STTR | TBD | Various : Various | 0.064 | - | | - | | - | | - | | - | - | 0.064 | - |
| Subtotal | | | 2.261 | 0.233 | | 0.164 | | 0.233 | | - | | 0.233 | - | 2.891 | - |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Various combat feeding equipment, multi fuel and water equipment | C/FP | RDECOM : Natick, MA | 5.376 | 0.809 | Mar 2014 | 1.469 | | 0.549 | | - | | 0.549 | - | 8.203 | Continuing |
| DOD Field Feeding Equipment | C/FP | Various : Various | 3.337 | 0.278 | Apr 2014 | 0.920 | | 0.648 | | - | | 0.648 | - | 5.183 | Continuing |
| Army Field Feeding Equipment Development | C/FP | PM Force Sustainment Systems (FSS) : Natick, MA | 2.266 | 0.211 | Mar 2014 | 0.241 | | - | | - | | - | - | 2.718 | Continuing |
| Subtotal | | | 10.979 | 1.298 | | 2.630 | | 1.197 | | - | | 1.197 | - | 16.104 | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Various | Various | TECOM/OEC/ATC : Warren, MI | 3.709 | 0.343 | May 2014 | 0.240 | | - | | - | | - | - | 4.292 | Continuing |
| Subtotal | | | 3.709 | 0.343 | | 0.240 | | - | | - | | - | - | 4.292 | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 16.949 | 1.874 | | 3.034 | | 1.430 | | - | | 1.430 | - | 23.287 | - |

UNCLASSIFIED

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army | | | | | | | Date: February 2015 | | | |
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| | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract | |
| Remarks | | | | | | | | | | |
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UNCLASSIFIED

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| Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army | | | | | | | | | | | | | | | | | | | | Date: February 2015 | | | | | | | | |
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| Event Name | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Transition advanced USMC equipment and systems to USMC for procure | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transition advanced USN equipment and systems to USN for procureme | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Obtain SGA onduct production test of individual ration components/pack | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transition individual rations/ration components documents to DLA /servi | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct operational test of Unitized Group Ration components/packagin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transition Unitized Group Ration component/packaging documents to D | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Group Ration Airdrop Survivability Effort | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Group Ration Airdrop Survivability Efforts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete transition to new recipe development/nutritional analysis softw | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transition subset of completed AFRS recipes to Joint Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) Transition CK P3I to RESET | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) Transition Temp Controllers for Field Kitchen Appliances to Procurem | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Navy Future Galley Modular and Seabasing Effort | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

| | | |
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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | Project (Number/Name) 548 / <i>Mil Subsistence Sys</i> |
|--|--|--|

| Event Name | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (1) Transition Multi-Functional Secondary Packing to DLA-TS | ▲ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct DT/OT on Ice Maker Prototype | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) Complete all TDP Changes for BEAR Kitchen Enhancements | | | | ▲ | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate modular appliance design upgrades based on customer test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) Initiate PQT Prototypes for advanced modular appliances | | | | | | | | ▲ | | | | | | | | | | | | | | | | | | | | |
| (4) Transition Autonomous Shipboard Cleaning System to Navy | | | | | | | | | | | | ▲ | | | | | | | | | | | | | | | | |
| Conduct root cause analysis on MTRHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Procure, test & evaluate a hydroponic system to grow fresh produce aboard ship | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing to validate AMMPS generator interface and performance with CK | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop Tech Data in support of CK ECP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Validate JIFF burner performance in platforms to complete TDP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct OT&E for Navy Food Storage Analysis Tool | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expand NFSAT capabilities to include LPD amphibious warfare ship class | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army | | | Date: February 2015 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | Project (Number/Name) 548 / <i>Mil Subsistence Sys</i> | |

Schedule Details

| Events | Start | | End | |
|--|----------------|-------------|----------------|-------------|
| | Quarter | Year | Quarter | Year |
| Transition advanced USMC equipment and systems to USMC for procurement. | 1 | 2013 | 4 | 2021 |
| Transition advanced USN equipment and systems to USN for procurement. | 1 | 2014 | 4 | 2021 |
| Obtain SGA onduct production test of individual ration components/packaging | 1 | 2009 | 4 | 2021 |
| Transition individual rations/ration components documents to DLA /services | 1 | 2009 | 4 | 2021 |
| Conduct operational test of Unitized Group Ration components/packaging | 1 | 2009 | 4 | 2021 |
| Transition Unitized Group Ration component/packaging documents to DLA-TS | 1 | 2009 | 4 | 2021 |
| Conduct Group Ration Airdrop Survivability Effort | 2 | 2015 | 4 | 2015 |
| Conduct Group Ration Airdrop Survivability Efforts | 1 | 2017 | 4 | 2017 |
| Complete transition to new recipe development/nutritional analysis software | 2 | 2015 | 4 | 2015 |
| Transition subset of completed AFRS recipes to Joint Services | 1 | 2015 | 4 | 2015 |
| Transition CK P3I to RESET | 4 | 2015 | 4 | 2015 |
| Transition Temp Controllers for Field Kitchen Appliances to Procurement | 4 | 2014 | 4 | 2014 |
| Conduct Navy Future Galley Modular and Seabasing Effort | 1 | 2014 | 4 | 2015 |
| Transition Multi-Functional Secondary Packing to DLA-TS | 1 | 2014 | 1 | 2014 |
| Conduct DT/OT on Ice Maker Prototype | 2 | 2014 | 4 | 2014 |
| Complete all TDP Changes for BEAR Kitchen Enhancements | 4 | 2014 | 4 | 2014 |
| Initiate modular appliance design upgrades based on customer test | 2 | 2014 | 3 | 2014 |
| Initiate PQT Prototypes for advanced modular appliances | 2 | 2015 | 2 | 2015 |
| Transition Autonomous Shipboard Cleaning System to Navy | 4 | 2015 | 4 | 2015 |
| Conduct root cause analysis on MTRHS | 2 | 2015 | 4 | 2015 |
| Procure, test & evaluate a hydroponic system to grow fresh produce aboard ballis | 3 | 2015 | 4 | 2015 |
| Testing to validate AMMPS generator interface and performance with CK ECP | 1 | 2015 | 2 | 2015 |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army | | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | | R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment | | Project (Number/Name) 548 / Mil Subsistence Sys | |
| | | Start | | End | |
| Events | | Quarter | Year | Quarter | Year |
| Develop Tech Data in support of CK ECP | | 3 | 2014 | 4 | 2015 |
| Validate JIFF burner performance in platforms to complete TDP | | 3 | 2014 | 4 | 2014 |
| Conduct OT&E for Navy Food Storage Analysis Tool | | 1 | 2016 | 4 | 2016 |
| Expand NFSAT capabilities to include LPD amphibious warfare ship class and LCS | | 2 | 2015 | 4 | 2015 |

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|---|-------------|---------|---------|--------------|--|---------------|---------|---------|---|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | | | | | | | | | Date: February 2015 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment | | | | Project (Number/Name) EL2 / Army Field Feeding Equipment | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| EL2: Army Field Feeding Equipment | - | - | - | 0.333 | - | 0.333 | 1.505 | 2.058 | 1.778 | 1.138 | - | 6.812 |
| 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 the Army. 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 Army's Strategic Planning Guidance by developing and integrating critical expeditionary capabilities that maintain readiness; provide effective solutions that reduce the resource and operational energy footprint; provide modernized equipment; and enhance the field Soldier's well being. This project also reduces 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 the Army.

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

| | FY 2014 | FY 2015 | FY 2016 |
|--|----------------|----------------|----------------|
| Title: Ice Making System | - | - | 0.333 |
| Description: Develops an add-on ice making capability that automatically dispenses and seals 10 lbs bags at a rate of a minimum of 3,600 pounds of ice per day. This capability is based upon Army current operational requirements for ice which is four pounds per Soldier per day. This capability enables support for up to 900 personnel. Current operations require external support to provide personnel with ice for cooling drinking water in extremely arid environments. This capability will reduce the sustainment risk and cost associated with transporting this commodity from external sources. The objective requirement enables stockage of ice to assist with surge operations. | | | |
| FY 2016 Plans: Award contract for development of prototype Containerized Ice Making Systems and complete Developmental Testing. | | | |
| Accomplishments/Planned Programs Subtotals | - | - | 0.333 |

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|---|----------------|----------------|-------------------------|--|--------------------------|----------------|----------------|---|----------------|-----------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Army | | | | | | | | | | Date: February 2015 | |
| Appropriation/Budget Activity 2040 / 5 | | | | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | | | | Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i> | | | |
| C. Other Program Funding Summary (\$ in Millions) | | | | | | | | | | | |
| Line Item | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| • RDT&E 654713.548: <i>Military Subsistence System</i> | 1.874 | 3.034 | 1.430 | - | 1.430 | 0.961 | 0.550 | 0.652 | 1.319 | Continuing | Continuing |
| • RDT&E 643747.610: <i>Food Adv Dev</i> | 5.013 | 3.480 | 0.021 | - | 0.021 | 5.598 | 6.803 | 5.043 | 4.713 | Continuing | Continuing |
| • RDT&E 643747.EL1: <i>Army Field Feeding Programs</i> | - | - | 0.280 | - | 0.280 | 1.974 | 0.452 | - | 0.509 | Continuing | Continuing |
| • OPA M65806: <i>Assault Kitchen, Field Feeding</i> | 0.423 | 4.889 | 3.632 | - | 3.632 | 5.167 | 4.660 | 4.165 | 4.605 | Continuing | Continuing |
| Remarks | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| N/A | | | | | | | | | | | |

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|---|-----------------------------------|---|--------------------|--|-------------------|----------------|-------------------|---|-------------------|--------------------|-------------------|----------------------------|-------------------------|-------------------|---------------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army | | | | | | | | | | | | Date: February 2015 | | | |
| Appropriation/Budget Activity 2040 / 5 | | | | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | | | | Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i> | | | | | | | |
| Management Services (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Project Management Support | Various | PM Force Sustainment Systems : Natick, MA | 0.000 | - | | - | | 0.015 | | - | | 0.015 | - | 0.015 | - |
| Subtotal | | | 0.000 | - | | - | | 0.015 | | - | | 0.015 | - | 0.015 | - |
| Product Development (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Ice Making System | Various | RDECOM : Natick, MA | 0.000 | - | | - | | 0.113 | Oct 2015 | - | | 0.113 | - | 0.113 | - |
| Subtotal | | | 0.000 | - | | - | | 0.113 | | - | | 0.113 | - | 0.113 | - |
| Test and Evaluation (\$ in Millions) | | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Ice Making System | Various | ATC/Ft Lee : Virginia | 0.000 | - | | - | | 0.205 | Oct 2015 | - | | 0.205 | - | 0.205 | - |
| Subtotal | | | 0.000 | - | | - | | 0.205 | | - | | 0.205 | - | 0.205 | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 0.000 | - | | - | | 0.333 | | - | | 0.333 | - | 0.333 | - |
| Remarks | | | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army | | | | | | | | | | | | | | | | Date: February 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | | | | R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment | | | | | | | | Project (Number/Name) EL2 / Army Field Feeding Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Event Name | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete prototype Containerized Ice Making Systems (CIMS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Developmental Testing (DT) on the Containerized Ice Making Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Operational Testing on the Containerized Ice Making Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) Complete Milestone C and transition CIMS into production | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design and build Battlefield Kitchen prototypes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct DT on the Battlefield Kitchen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Limited User Testing on the Battlefield Kitchen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) Complete Milestone C and transition Battlefield Kitchen into production | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design and build prototype DESERT Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Developmental Testing (DT) on the DESERT Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conduct Limited User Testing on the DESERT Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army | | | Date: February 2015 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i> | Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i> | |

Schedule Details

| Events | Start | | End | |
|--|----------------|-------------|----------------|-------------|
| | Quarter | Year | Quarter | Year |
| Complete prototype Containerized Ice Making Systems (CIMS) | 1 | 2016 | 2 | 2016 |
| Conduct Developmental Testing (DT) on the Containerized Ice Making Systems | 3 | 2016 | 4 | 2016 |
| Conduct Operational Testing on the Containerized Ice Making Systems | 1 | 2017 | 2 | 2017 |
| Complete Milestone C and transition CIMS into production | 4 | 2017 | 4 | 2017 |
| Design and build Battlefield Kitchen prototypes | 1 | 2017 | 1 | 2018 |
| Conduct DT on the Battlefield Kitchen | 2 | 2018 | 4 | 2018 |
| Conduct Limited User Testing on the Battlefield Kitchen | 4 | 2018 | 1 | 2020 |
| Complete Milestone C and transition Battlefield Kitchen into production | 2 | 2019 | 2 | 2019 |
| Design and build prototype DESERT Systems | 1 | 2019 | 4 | 2019 |
| Conduct Developmental Testing (DT) on the DESERT Systems | 1 | 2020 | 2 | 2020 |
| Conduct Limited User Testing on the DESERT Systems | 3 | 2020 | 4 | 2020 |