ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

0603 □ 4 □ A - Soldier Support and Survivability

| | COST (In Thousands) | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | Cost to | Total Cost |
|-----|---------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|------------|------------|
| | COST (In Thousands) | Actual | Estimate | Complete | |
| | Total Program Element (PE) Cost | 13133 | 13234 | 3393 | 2728 | 3767 | 3860 | 4244 | 4331 | Continuing | Continuing |
| 610 | FOOD ADV DEVELOPMENT | 3540 | 3848 | 3393 | 2728 | 3767 | 3860 | 4244 | 4331 | Continuing | Continuing |
| 669 | CLOTHING AND EQUIPMENT | 8323 | 9196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22086 |
| C09 | SOLDIER SUPPORT EQUIPMENT - AD | 1270 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13048 |

A. Mission Description and Budget Item Justification: This program element supports component development and prototyping for organizational equipment, improved individual clothing and equipment that enhance Soldier battlefield effectiveness, survivability, and sustainment. This program element also supports the component development and prototyping of joint service food and combat feeding equipment designed to reduce logistics burden. In FY06, Projects 669 and C09 transition to a new Program Element, 0603827A, Soldier Systems - Advanced Development.

| B. Program Change Summary | FY 2005 | FY 2006 | FY 2007 |
|---------------------------------------|---------|---------|---------|
| Previous President's Budget (FY 2005) | 13810 | 11705 | 11013 |
| Current Budget (FY 2006/2007 PB) | 13234 | 3393 | 2728 |
| Total Adjustments | -576 | -8312 | -8285 |
| Net of Program/Database Changes | | | |
| Congressional Program Reductions | -200 | | |
| Congressional Rescissions | | | |
| Congressional Increases | | | |
| Reprogrammings | | | |
| SBIR/STTR Transfer | -376 | | |
| Adjustments to Budget Years | | -8312 | -8285 |

| ARMY RDT&E BUDGET ITEM JUSTIF | ICATION (R2 Exhibit) | February 2005 |
|--|--|---------------|
| BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes | PE NUMBER AND TITLE 0603□4□A - Soldier Support and Su | ırvivability |
| Change Summary Explanation: Funding - FY 06/07: Funds realigned to other h | igher priority requirements. | |
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| ARMY RDT&E BUDGET ITE | EM JUS | STIFIC | ATION | (R2a l | Exhibi | t) | Fe | ebruary : | 2005 | |
|---|-------------------|---------------------|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|------------|
| BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes | l | | PE NUMBER 0603 □4 □ 4 | | | ort and S | urvivabil | lity | PROJECT 610 | |
| COST (In Thousands) | FY 2004 Actual | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total Cost |
| 610 FOOD ADV DEVELOPMENT | 3540 | 3848 | 3393 | 2728 | 3767 | 3860 | 4244 | 4331 | Continuing | Continuing |

A. Mission Description and Budget Item Justification: This project provides for the advanced component development and prototyping of joint service food and combat feeding equipment designed to reduce the logistics burden and Operation and Support (O&S) costs of subsistence support to service personnel. Project supports development of rations and rapidly deployable field food service equipment. Project conducts demonstration and validation of improved subsistence and subsistence support items used to enhance soldier effectiveness and quality of life in all four Services, as part of an integrated Department of Defense (DoD) Food Research, Development, Test, Evaluation and Engineering Program. The Program is reviewed and validated twice annually by the DoD Combat Feeding Research and Engineering Board (CFREB) as part of the Joint Service Food Program. This project develops critical enablers that support the Joint Future Force Capabilities and the Joint Expeditionary Mindset by maintaining readiness through fielding and integrating new equipment. This equipment enhances the field soldier's well-being and provides the soldier with usable equipment, in addition to reducing sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, combat zone footprint, and costs for logistical support.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2005

BUDGET ACTIVITY

4 - Advanced Component Development and **Prototypes**

PROJECT

PE NUMBER AND TITLE 0603 □4 □A - Soldier Support and Survivability

610

| Accomplishments/Planned Program | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|---|---------|---------|---------|---------|
| FY 04: Developed, field tested and transitioned updated Unitized Group Ration-Heat & Serve (UGR-H&S) and UGR-A menus and documents for procurement to ensure maximum acceptability and consumption. Completed revisions to the Medical Diet Supplement (MDS) based on field input. Developed optimized user labeling for the UGR-H&S and initiated transition into procurement documents. Initiated development of UGR-H&S Surge Procurement database. A total of 25 new items were developed and field tested. Results presented to Feb 04 Joint Services Operational Ration Forum (JSORF) and approved for use in the UGR-H&S 05 menus. FY 05-07: Continue to improve fielded group operational rations to increase variety, enhance acceptability, increase consumption and improve nutritional intake to maintain peak performance on the battlefield. Integrate state-of-the-art packaging technologies and other Science and Technology (S&T) transitions into fielded group rations. | 640 | 924 | 660 | 679 |
| FY 04: Completed in-house testing of Institutional-Sized Pouch (ISP) product and packaging (material and assembly configuration). Conducted in-house and field testing of ISPs to ensure compatibility with military food service equipment. Based on performance, cost and commercial availability, recommended adoption of ISPs as potential components for UGR-B and as an additional production base for military surge option for UGR-H&S. Initiated transition of ISP technology to procurement. | 273 | 0 | 0 | 0 |
| FY04: Conducted Meal, Cold Weather/Long Range Patrol Ration advanced development of new brick packaging and easy open peelable seal for Operation and Support (O&S) cost reduction; conducted advanced development of nutrient supplementation fortification for operational rations to enhance cognitive and physical performance. Completed introduction of Hot Beverage Bag into Meal Ready to Eat (MRE). A total of 30 new test items were developed for testing, results presented to Feb 04, Joint Service Operational Rations Forum (JSORF) and approved for use in the MRE 05 menus. | 981 | 0 | 0 | 0 |
| FY 05: Continue annual improvements to enhance acceptability and consumption of individual and assault rations; conduct large scale test of new Meal Ready to Eat (MRE) items with soldiers. Initiate non-hydrogen flameless ration heater development to reduce hydrogen field waste, design new items and procure initial prototypes from at least two different vendors. Conduct field evaluations with Soldiers under actual conditions using FY 04 improved Meal Cold Weather and Long Range Patrol Rations, then analyze test data and present recomendations for new products to the Joint Service Operational Forum (JSORF). | 0 | 1154 | 0 | 0 |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2005

BUDGET ACTIVITY

4 - Advanced Component Development and **Prototypes**

PROJECT

PE NUMBER AND TITLE 0603 □4 □A - Soldier Support and Survivability

610

| Accomplishments/Planned Program (continued) | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|--|---------|---------|---------|---------|
| FY 06: Continue annual improvements to enhance acceptability and consumption of individual and assault rations; conduct field-testing of new MRE items. Conduct large-scale non-hydrogen flameless ration heater field test with Soldiers; analyze data and work with regulatory agencies on introduction of new heaters. Continue introduction of improved Meal Cold Weather and Long Range patrol Rations for new products to the Joint Service Operational Rations Forum. Establish full-scale producibility of First Strike ration and components. Complete Performace Contract Requirements (PCR) and obtain JSORF approval for First Strike Ration procurement. | 0 | 0 | 1008 | 0 |
| FY 07: Continue annual improvements of individual and assault rations; conduct field testing of new MRE items. Complete data analysis of FY 06 non-hydrogen flameless ration heater field tests. Complete procurement documentation and transition for Defense Supply Center Philadelphia (DSCP) procurement. Conduct field test of improved Meal Cold Weather and Long Range Patrol Rations, analyze test data and present recommendations for new products to the Joint Service Operational Ration Forum. Finalize full-scale producibility of First Strike Ration and components, which will reduce weight/cube by 50% over 3 standard MREs. Prepare and transition procurement documentation for DSCP. | 0 | 0 | 0 | 798 |
| FY 04: Continued storage studies of ongoing stored items. FY 06-FY 07: Complete storage studies on remaining items. Develop predictive protocols for accelerated storage of rations and transition recommended changes to procurement documents. Initiate efforts to provide Veterinary Command (VETCOM) storage guidelines that correlate commercial use-by dates with Unitized Group Ration (UGR) shelf life requirements and develop a predictive model using accelerated storage data to ensure highly acceptable and wholesome rations. | 92 | 0 | 150 | 89 |
| FY 04: Awarded a combined development and production contract for the Multi-Temperature Refrigerated Container System (MTRCS). Completed design and initiated fabrication of MTRCS prototypes. FY 05: Complete fabrication of MTRCS prototypes and conduct Developmental and Operational Testing. FY 06: Complete Developmental and Operational Testing and prepare Milestone C for transition into production. | 309 | 624 | 50 | 0 |
| FY 04: Installed and tested a new Modular Refrigerator on the aircraft carrier USS Roosevelt. The Modular Refrigerator increases available freezer assets and increases operating efficiency. A draft specification was prepared for use in Navy procurement. | 192 | 0 | 0 | 0 |
| FY 04: Reviewed ice makers presently used on Navy ships, compared output to shipboard demand and recommended improvements. Tested and procured commercial icemakers, down selected and tested candidates on sea vessels. | 242 | 0 | 0 | 0 |
| FY 06: Initiate development of grey water treatment options for the field food sanitation system. FY 07: Conduct technical evaluation of full scale grey water treatment devices. | 0 | 0 | 200 | 497 |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2005

BUDGET ACTIVITY

4 - Advanced Component Development and **Prototypes**

PROJECT

PE NUMBER AND TITLE 0603 □4 □A - Soldier Support and Survivability

610

| Accomplishments/Planned Program (continued) FY 05: Conduct market investigation into field co-generation technologies for Field Feeding Operations and prepare for FY 06 award of development contract. FY 06: Award a contract to develop a co-generator that produces heat for cooking and sanitation as well as electrical energy for the kitchen's systems. Evaluate the prototype co-generator through bench top testing and optimize the design. FY 04: Prepared a technical data package for the Sanitation Steam Heater and transitioned it to the Air Force for procurement. FY 05: Complete development of various package configurations for Compressed Meal (CM) technology which will provide shelf stable, fresh-like quality and reduce the logistics footprint. FY 06: Complete producibilty and field-testing of CM and transition CM technology to procurement. | FY 2004 0 187 0 | 0 287 | FY 2006 250 0 300 | FY 2007 0 0 0 |
|--|--------------------------|-------|----------------------------|------------------------|
| FY 04: Initiated design changes for Remote Unit Self-Heating Meal (RUSHM), renamed to Unitized Group Ration-Express (UGR-E), and conducted pre-production testing to validate commercial producibility. Developed self-contained prototype to enhance convenience, as well as water-added prototypes, and conducted in-house verification tests. Initiated confirmatory field tests validating utility for remote site feeding. FY 05: Draft Performance Contract Requirements (PCR) and acquistion strategy for Untitized Group Ration Enhancements (UGR-E). Complete pre-production contract to validate producibility and cost. Conduct remote site large scale field testing, accelerated storage, rough handling, and cold weather testing. Finalize menus, dietary requirements, accessory components and overall module configuration. FY 06: Complete producibility demonstrations and field testing of UGR-E. Complete Safety Assessment Report (SAR), Health Hazard Assessment Report (HHAR), and Department of Transportation/Environmental Protection Agency (DOT/EPA) regulatory assessments. Complete acquisition strategy and obtain JSORF approval for procurement. Finalize procurement documentation and transition to Defense Logistics Agency (DLA) for procurement. | 402 | 383 | 174 | 0 |
| FY 04: Conducted developmental and operational testing of commercial storage/MAP gas system(s) to extend shelf life for fresh fruits and vegetables. FY 05: Down select and conduct testing aboard submarines of commercial storage/MAP gas systems. FY 06: Conduct surveys and prepare final report and recommendations to the Navy. | 222 | 136 | 153 | 0 |
| FY 05: Conduct studies on emerging technologies to reduce food service labor and to reduce freezer storage on board Navy ships by use of prepared foods, common menus and shelf stable food items. Transition technology to Navy. | 0 | 134 | 0 | 0 |
| FY 06-FY 07: Develop Modular Food Service equipment prototypes; modify, test and evaluate to further optimize future Navy DDX galley designs. | 0 | 0 | 224 | 232 |

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit) February 2005 BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 4 - Advanced Component Development and 0603 ☐ 4 ☐ A - Soldier Support and Survivability 610 **Prototypes** Accomplishments/Planned Program (continued) FY 2004 FY 2005 FY 2006 FY 2007 FY 06: Optimize and ruggedize Surface Biosensor to ensure performance in field environments. Transition to Vice Chief of Army, Office of the Surgeon General (VSA, OTSG) for procurement. FY 07: Initiate development of prototype scrubber for removal of carbon dioxide from field kitchen and sanitiation system work 0 0 204 environments. FY07: Award contract for the development of a water heating/chilling device for crew sustainment in the Future Combat 0 0 0 229 Vehicle FY05: Conduct a Market Survey of options to mitigate combustion by-products for the field food sanitation system, procure 120 0 0 recommended solutions and conduct in-house testing. Totals 3540 3848 3393 2728 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 **B. Other Program Funding Summary** To Compl Total Cost RDTE, 0604713.548, Military Subsistence 1895 1946 3383 2952 2464 2461 2099 2142 Continuing Continuing

5006

10416

9140

10586

10584

C. Acquisition Strategy: Project development will transition to System Development & Demonstration and production.

0

5884

System

OPA 3, M65801, Refrigerated Containers

10892 Continuing Continuing

| Method & Type a. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment l. Support Cost Contracts Contracts Contracts Contracts Contracts Total Performing Activity & Total Performing Activity & Total Targe Value of Contract Method & Type Contract Contract Method & Type Contract Method & Type Contract Contract Method & Type Contract Date Cost Award Date Cost Award Cost Award Cost Date Complete Cost Continue Contract Continue Targe Value of Contract Date Contract Date Complete Cost Contract Complete Cost Contract Contract Date Contract Date Date Contract Date Date Contract Date Date Date Date Date Date Date Dat | | ARM | Y RDT&E CO | ST AN | ALYS | SIS(R3) | | | | Feb | ruary 20 | 05 | |
|--|---|-----------|--------------------------------|----------|---------|---------|---------|---------|---------|-----------|----------|-------|-----------------------------|
| Method & Type a . Joint Service Food/Combat Feeding Equipment b . Joint Service Food/Combat Feeding Equipment Contracts Various 10148 1474 | | ponent De | evelopment and P | rototype | | | | Support | and Sur | vivabilit | y | | |
| Food/Combat Feeding Equipment b. Joint Service Food/Combat Feeding Equipment Contracts Various 10148 1474 1-4Q 1248 1-4Q 983 1-4Q Continue 13853 Continue Subtotal: 10148 31988 2989 2531 1994 Continue 39502 Continue 39502 Continue 39502 Continue 39502 Continue 39502 Continue 10148 1014 | I. Product Development | Method & | Performing Activity & Location | | | t Award | | Award | | Award | Complete | | Targe Value o Contrac |
| Food/Combat Feeding Equipment Subtotal: Contract Method & Type Performing Activity & Process Proce | a . Joint Service Food/Combat Feeding Equipment | In-House | RDECOM, Natick, MA | 21840 | 1515 | 5 1-4Q | 1283 | 1-4Q | 1011 | 1-4Q | Continue | 25649 | Continue |
| Subtotal: Contract Performing Activity & Total FY 2005 FY 2006 FY 2006 FY 2007 Cost Total Target Contract Cost Type Cost Cost Cost Date Cost Date Cost Date Cost Cost | Food/Combat Feeding | Contracts | Various | 10148 | 1474 | 1 1-4Q | 1248 | 1-4Q | 983 | 1-4Q | Continue | 13853 | Continue |
| II. Support Cost Contract Method & Location Pys Cost Type Cost Date Contract Date Cost Date Date Cost Date Cost Date Cost Date Cost Date Cost Date Date Cost Date Cost Date Date Date Date Date Date Date Dat | Subtotal: | | | 31988 | 2989 | 9 | 2531 | | 1994 | | Continue | 39502 | Continue |
| Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Cost Contract Cost Contract Cost Contract Cost Cost Cost Cost Cost Cost Cost Cos | II. Support Cost | Contract | Performing Activity 9 | Total | EV 2006 | EV 2005 | EV 2006 | EV 2006 | EV 2007 | EV 2007 | Cost To | Total | Torgo |
| | n. Support Cost | Method & | | | | t Award | | Award | | Award | Complete | | Value of Contract |
| Subiotal. | Subtotal: | | | 0 | (|) | 0 | | 0 | | 0 | 0 | C |
| | | | | | | | | | | | | | |
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| BUDGET ACTIVITY 4 - Advanced Compoi | | Y RDT&E COS |) I AN | | ` ' | | | | Feb | ruary 20 | | |
|--------------------------------------|----------------------------|----------------------------------|-------------------|-----------------|------------------------------|-----------------|--------------------------|-----------------|--------------------------|---------------------|----------------------|-----------------------------|
| | nent De | evelopment and Pr | ototype | | UMBER ANI)3□4□A - | | Support | and Sur | vivabilit | y | PROJEC 610 | |
| Me | ontract lethod & ype | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost To Complete | Total Cost | Targe Value o Contrac |
| | (IPR | DTC, Maryland & AEC, Virginia | 4446 | 665 | 1-4Q | 563 | 1-4Q | 443 | 1-4Q | Continue | 6117 | Continue |
| Subtotal: | | | 4446 | 665 | | 563 | | 443 | | Continue | 6117 | Continue |
| Ту | lethod & ype n-House | RDECOM, Natick, MA | PYs Cost 1704 | Cost 194 | Award Date 1-4Q | 299 | Award Date 1-4Q | Cost 291 | Award Date 1-4Q | · | 2488 | Value of Contract Continu |
| | | | 1704 | 194 | | 299 | | 291 | | Continue | 2488 | Continue |
| O 1.1.1.1 | | | | | | | | | | | | |
| Subtotal: | | | | | | | | | | | | |

| Schedule | Profile (R | 4 Exhib | it) | | | Feb | ruary 2005 | |
|---|--------------|------------|-----------------------------------|----------|--------------|------------|-------------|----------------------|
| BUDGET ACTIVITY 4 - Advanced Component Developm | nent and Pro | ototypes | PE NUMBER A1 0603 □4 □A | | ipport and S | | PR | .ојест 610 |
| Event Name | FY 04 | FY 05 | FY 06 | FY 0 | FY 0 | FY 0 | FY 10 | FY 11 |
| | 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 2 3 4 |
| (1) Field Test MRE enhancements, (2) , (3) , (4) , (5) , (6) , (7) , (8) | 1 | 2 | 3 | <u> </u> | <u>\$</u> | 6 | | |
| (9) Field Test UGR Enhancements, (10) , (11) , (12) , (13) , (14) , (15) , (16) | <u> </u> | 1 | <u> </u> | 12 | <u> </u> | 1 | <u> 1</u> 5 | <u> 1</u> |
| (17) Transition new rations to DPSC, (18) , (19) , (20) , (21) , (22) , (23) , (24) | <u> </u> | <u> </u> | <u> </u> | 20 | 2 | <u> 22</u> | A | <u>2</u> 4 |
| (25) Pre-Production testing of RUSHM, (26) Producibility and Field test of Compressed Meal, (27) Test prototype design of MFSS for DDX, (28) test MFSS aboard Navy ship | 25 | <u>2</u> 6 | | <u> </u> | A | | | |
| (29) MS C for MTRCS, (30) MS B for JSMAK, (31) Test & Evaluate Multi-Ration Heater/Tray Ration Heater enhancement, (32) Field test RFID technology | | | | A | <u>a a a</u> | | | |
| (33) Complete producibility demonstration and field test UGR-E | | | <u>33.</u> | | | | | |
| DT/OT on MTRCS (34) DT/OT on Commercial Storage/MAP Gas System | 34 | l ' | | | | | | |

0603747A (610) FOOD ADV DEVELOPMENT

Item No. 62 Page 10 of 14 122

Budget Item Justification

| Schedule Detail (R4 | la Exhib | it) | | | | | Februa | ary 2005 | |
|--|----------|----------|--------------------------------|---------|----------|---------|---------|-----------------------|--|
| BUDGET ACTIVITY 4 - Advanced Component Development and Pro | | PE NUMBI | ER AND TIT □ A - Sol | | d Surviv | | PRC | PROJECT 610 | |
| Schedule Detail | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| Conduct field test on Meals Ready to Eat (MRE) enhancements. | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | |
| Transition new Individual rations to DSCP and Services. | 4Q | 4Q | 4Q | 4Q | 4Q | 4Q | 4Q | 4Q | |
| Conduct field test on UGR enhancements. | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | 3Q | |
| Prepared TDP for sanitation steam heater and transitioned to Air Force. | 4Q | | | | | | | | |
| Transition UGR enhancements/changes to DSCP for procurement. | 4Q | 2Q | 2Q | 2Q | 2Q | 2Q | 2Q | 2Q | |
| Complete producibility and field test of Compressed Meal. | | 2Q | | | | | | | |
| Conducted pre-production testing of Remote Unit Self Heating Meal (RUSHM). | 4Q | | | | | | | | |
| Procured and tested commercial items for sea vessels. | 3Q | | | | | | | | |
| Installed Modular Refrigerator on board USS Roosevelt. | 4Q | | | | | | | | |
| Test prototype design of Modular Food system for DDX. | | | | 2Q | | | | | |
| Test Modular Food Service System aboard Navy ship. | | | | | 1Q | | | | |
| Conduct studies on emerging technologies to reduce food service labor on board Navy ships. | | | 3Q | | | | | | |
| Develop Modular Food Service equipment and transition to the Navy. | | | | 3Q | 3Q | 3Q | 3Q | 3Q | |
| Prepare TDP and transition Surface Scanning Biosensor to VSA, OTCG for procurement. | | | 4Q | | | | | | |
| Transition performance contract requirements for Tamper Evident Packaging to DSCP and services. | | | | | 4Q | | | | |
| Test and evaluate Multi-Ration Heater/Tray Ration | | | | | 2Q | | | | |
| Heater enhancements. Conduct field tests on Radio Frequency Identification | | | | | 3Q | | | | |
| (RFID) technology. | | | | | JQ | | | | |
| Transition heat-driven refrigerator to advanced development. | | | 1Q | | | | | | |

| Schedule Detail (R | 4a Exhib | it) | | | | | Febru | ary 2005 | |
|---|----------|---------|---------------------------------|---------|---------|----------|---------|--------------------|---|
| BUDGET ACTIVITY 4 - Advanced Component Development and Pr | ototypes | | ER AND TIT •□ A - Sol | | port an | d Surviv | ability | PROJE 61 | _ |
| Schedule Detail (continued) | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| Transition component shelf life guidelines correlated to commercial use-by dates to VETCOM. | | | 4Q | | | | | | |
| Transition the Compressed Meals to DSCP for procurement. | | | 4Q | | | | | | |
| Transition Lightweight Insulated Food Containers to procurement. | | | | 4Q | | | | | |
| Transition First Strike Ration procurement documentation to DSCP. | | | | 4Q | | | | | |
| Complete producibility demostrations and field test UGR-E. | | | 4Q | | | | | | |
| Conduct Milestone B for Joint Service Modular Kitchen System (JSMAK). | | | | | 1Q | | | | |
| Initiate DT and OT on the Mult Temp Refrigerated Container System (MTRCS). | | 4Q | | | | | | | |
| Complete DT and OT for the MTRCS. | | | 3Q | | | | | | |
| Conduct Milsestone C for MTRCS. | | | | 1Q | | | | | |
| Conduct DT/OT of commercial storage/MAP gas system to extend shelf life of fresh fruits/vegetables. | 4Q | | | | | | | | |
| Test commercial storage/MAP gas system aboard submarines. | | 3Q | | | | | | | |
| Conduct surveys on commercial storage/MAP gas systems and provide recommendations to the Navy. | | | 4Q | | | | | | |

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit) February 2005 | | | | | | | | | | | | |
|---|-------------------|---------------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|------------------------------|------------|--|--|
| BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes | | | | PE NUMBER AND TITLE 0603□4□A - Soldier Support and Su | | | | | PROJECT Gurvivability 66□ | | | |
| COST (In Thousands) | FY 2004 Actual | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total Cost | | |
| 669 CLOTHING AND EQUIPMENT | 8323 | 9196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22086 | | |

A. Mission Description and Budget Item Justification: Not applicable for this item.

Accomplishments/Planned Program Not applicable for this item.

B. Other Program Funding Summary: Not applicable for this item.

C. Acquisition Strategy: Not applicable for this item.

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit) | | | | | | | | February 2005 | | | | |
|--|--------------------------------|-------------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------|--|
| | | | | PE NUMBER AND TITLE 0603□4□A - Soldier Support and Su | | | | | PROJECT C0□ | | | |
| | COST (In Thousands) | FY 2004 Actual | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total Cost | |
| C09 | SOLDIER SUPPORT EQUIPMENT - AD | 1270 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13048 | |

A. Mission Description and Budget Item Justification: Not applicable for this item.

Accomplishments/Planned Program Not applicable for this item.

B. Other Program Funding Summary: Not applicable for this item.

C. Acquisition Strategy: Not applicable for this item.