

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

BUDGET ACTIVITY
4 - Demonstration/validation

PE NUMBER AND TITLE
0603747A - Soldier Support and Survivability

COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	13117	17331	20788	22758	22637	20140	20634	0	156015
610 FOOD ADV DEVELOPMENT	3292	3706	3907	4079	4089	4219	4228	0	32368
669 CLOTHING AND EQUIPMENT	3360	4788	4881	5533	5258	5529	5918	0	42164
C09 SOLDIER SUPPORT EQUIPMENT - AD	6465	8837	12000	13146	13290	10392	10488	0	81483

A. Mission Description and Budget Item Justification: This program element supports development for organizational equipment, improved individual clothing and equipment, and other combat service support equipment that will enhance soldier battlefield effectiveness, survivability, and sustainment. The program element also supports the development of personnel and cargo parachutes, airdrop containers, and other aerial delivery equipment to improve safety and efficiency of airborne operations. This Program Element includes a development project for food, packaging, and combat feeding equipment systems; an advanced development project for individual clothing and equipment items; and an advanced development project for a new generation of field service support items, shelters, tents, space heaters, showers, and latrines to advance the quality of life for field soldiers.

Supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	13449	17482	20458
Appropriated Value	13574	17482	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-151	0
b. SBIR / STTR	-332	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0
d. Below Threshold Reprogramming	0	0	0
e. Rescissions	-125	0	0
Adjustments Budget Years Since FY2002 PB	0	0	330
Current Budget Submit (FY 2003 PB)	13117	17331	20788

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BUDGET ACTIVITY 4 - Demonstration/validation	PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability	PROJECT 610
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COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
610 FOOD ADV DEVELOPMENT	3292	3706	3907	4079	4089	4219	4228	0	32368

A. Mission Description and Budget Item Justification: This project funds the development 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 three Services, as part of an integrated DoD Food Research, Development, Test, Evaluation and Engineering Program. The Program is reviewed and validated twice annually by the DoD Food and Nutrition Research and Engineering Board as part of the Joint Service Food Program.

This project supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.

FY 2001 Accomplishments:

- 120 Developed, demonstrated, and evaluated improvements (safety, reliability, maintainability, efficiency, etc.) to field feeding systems as required by the services for integration into future procurements.
- 457 Assessed ten pieces of new/advanced food service equipment technologies and transitioned five to the Navy for procurement. Demonstrated and validated a convenience food logistics model to assist in the designing and managing freezer storage requirements for prepared foods aboard ships.
- 435 Completed design and conducted initial testing of the Air Force's all-electric field kitchen system.
- 1100 Completed testing of new Meals Ready to Eat (MRE) and Unitized Group Rations (UGR) and components targeted for FY03 production. Determined usage rates for UGR to reduce waste and cost. Completed initial prototype of eat-on-the-move shelf stable pocket sandwich.
- 105 Completed tracking of warfighter feeding patterns and performance data and transferred to database to establish initial baseline for future field feeding scenarios.
- 245 Completed investigation of high impact nanocomposite alternatives to current polymeric tray that will enhance durability, oven performance, and assure extended (3yr) shelf life. Initiated evaluation of these alternative trays.

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FY 2001 Accomplishments: (Continued)

- 225 Downselected alternate chemical heater for the MRE that can be used on board Army pre -positioned ships, assessed production capability, and transitioned item to Defense Supply Center Philadelphia (DSCP) for production/MRE assembly.
- 505 Completed market investigation, conducted a make -or-buy analysis, and prepared the solicitation for initial development of the Multi-Temperature Refrigeration Container System (MTRCS) and Marine Corps 8X8X20 Refrigerated container that will support delivery of perishable rations on the battlefield.
- 100 Conducted sampling analysis of fielded Mobile Kitchen Trailers (MKTs) to support requirements development and evaluation of integrated technologies for the Battlefield Kitchen that will replace the MKT.

Total 3292

FY 2002 Planned Program

- 120 Develop and evaluate improvements to field feeding systems as required by the services for integration into future procurements.
- 1795 Continue improvement of individual and group rations to improve quality and warfighter acceptability. Complete right sizing of secondary menu components and transition to DSCP. Complete warfighter field test to determine ration type and effect on morale and performance. Initiate evaluation of institutional sized products integrated to reduce UGR weight and cube. Optimize monolayer nanocomposite polymeric tray to reduce cost and enhance producibility. Complete producibility evaluation of shelf stable sandwich. Complete Carbo Pack design for high energy expenditure warfighters.
- 275 Complete evaluation of nanocomposite-enhanced polymeric trays and investigate monolayered design/other tray enhancements to optimize cost, shelflife, utility in the field and survivability in frozen environments.
- 245 Continue evaluation of new/advanced shipboard food service equipment to improve quality and efficiency and the convenience food logistics model to optimize on-board freezer storage space.
- 400 Complete modification to the Air Force all-electric kitchen.
- 220 Continue storage studies and determine correlation and validation protocols for accelerated ration storage to reduce cost and ensure that operational requirements are met.
- 651 Fabricate initial system demonstration prototype (1 @ \$200K) of the Multi-Temperature Refrigeration Container System (MTRCS) and Marine Corps 8X8X20 Refrigerated Container and conduct initial testing to evaluate integrated technologies and assess integration risks.

Total 3706

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FY 2003 Planned Program

- 413 Develop and evaluate improvements to field feeding systems as required by the services for integration into future procurements.
- 1393 Continue improvement of individual and group rations, conduct field evaluations to evaluate advances in food processing and packaging technologies to improve quality and warfighter acceptability. Complete evaluation of institutional sized pouches to replace cylindrical metal cans to reduce cost and ensure environmental compliance.
- 368 Prepare evaluation report on labor saving equipment and food technologies for the Navy. Continue evaluation of new shipboard food service equipment to improve galley efficiencies.
- 248 Develop feeding pattern database; design ration delivery system prototype; and conduct evaluation to optimize consumption patterns, enhance warrior performance, and reduce waste.
- 143 Complete storage studies and finalize predictive protocols for accelerated storage of rations; transition recommended changes to Defense Logistics Agency (DLA).
- 198 Design initial prototype automatic sanitation system to interface with the Marine Corps Rapid Deployment Kitchen that will minimize labor, water, and energy.
- 373 Refine design and initiate evaluation of Remote Unit Self Heating Meals for remote site group feeding that will reduce food service costs, weight, and labor by 90%.
- 469 Complete Multi-Temperature Refrigeration Container System (MTRCS) initial testing to evaluate integrated technologies and assess integration risks. Demonstrate that MTRCS technology performs successfully in the intended operational environment and is ready for transition into System Development Demonstration (SDD).
- 302 Evaluate performance of advanced technologies that will improve field feeding sanitation in remote feeding operations.

Total 3907

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<u>B. Other Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, 0604713.548, Military Subsistence System	1694	1846	1941	2051	2051	2078	2077	Continuing	Continuing
OPA3, M65803, Kitchen, Containerized, Field	6077	4250	11158	7449	7203	8079	0	0	51248
OPA 3, M65802, Sanitation Center, Field Feeding	4323	2771	8954	8928	8986	8973	8980	Continuing	Continuing
OPA 3, M65801, Refrigerated Containers	1466	1066	0	0	0	0	0	0	3459

C. Acquisition Strategy: Project development transition to Engineering and Manufacturing Development and procurement.

<u>D. Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Complete design of Air Force all electric field kitchen system.	4Q						
Initiate Testing of Multi-Temp Refrigeration Container System (MTRCS) integrated technologies.		4Q					
Demonstrate that MTRCS Technology performs in the intended operational environment.			4Q				

ARMY RDT&E COST ANALYSIS(R-3)

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BUDGET ACTIVITY 4 - Demonstration/validation	PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability	PROJECT 610
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Joint Service Food/Combat Feeding Equipment	In-House	SBCCOM, Natick, MA	15755	1560	1-4Q	1650	1-4Q	1650	1-4Q	Continue	Continue	Continue
b . Joint Service Food/Combat Feeding Equipment	Contracts	Various	5004	1027	1-4Q	1346	1-4Q	1523	1-4Q	Continue	Continue	Continue
Subtotal:			20759	2587		2996		3173		Continue	Continue	Continue

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Joint Service Food/Combat Feeding Equipment	MIPR	DTC, Maryland & AEC, Virginia	2181	569	1-4Q	562	1-4Q	620	1-4Q	Continue	Continue	Continue
Subtotal:			2181	569		562		620		Continue	Continue	Continue

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Ofc Management	In-House	SBCCOM, Natick, MA	1230	136	1-4Q	148	1-4Q	114	1-4Q	Continue	Continue	Continue
Subtotal:			1230	136		148		114		Continue	Continue	Continue

Project Total Cost:			24170	3292		3706		3907		Continue	Continue	Continue
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BUDGET ACTIVITY 4 - Demonstration/validation		PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability					PROJECT 669			
COST (In Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
669	CLOTHING AND EQUIPMENT	3360	4788	4881	5533	5258	5529	5918	0	42164

A. Mission Description and Budget Item Justification: This project provides state-of-the-art technology to develop improved tactical and non-tactical clothing and individual equipment to enhance the lethality, survivability, sustainability, and mobility of the individual soldier. This project supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.

FY 2001 Accomplishments:

- 240 Developed performance specification and prepared for contract award for initial development for the Advanced Bomb Suit (ABS).
 - 1427 Completed contract phase I, conducted initial developmental testing on phase I prototypes, downselected to a single contractor, and awarded contract phase II to initiate laser protection integration for the Military Eye Protection System, (MEPS).
 - 72 Investigated advanced materials and designs in preparation for obtaining concept approval and Milestone B decision for the Integrated Head Protection, (IHP).
 - 495 Completed manufacturing methods development, conduct production scale-up of user evaluation items, and commence user evaluation and survey for the Cold Weather Canteen, CWC.
 - 661 Refined concept demonstration and obtain constructive user feedback Advanced Combat Uniform, (ACU).
 - 90 Obtained concept approval and solicitation release for the Modular Combat Boot, (MCB).
 - 88 Procured and tested modified chemical protective undergarments (mCPU) to validate the concept of using MCPUs as an interim solution until completed development for the Joint Protective Air Crew Ensemble, (JPACE).
 - 287 Provided in-house engineering support services, computer services, conduct technical and program reviews.
- Total 3360

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PROJECT

669**FY 2002 Planned Program**

- 1158 Military Eye Protection System, complete contract phase II, procure test items and commence user evaluation.
 - 220 Modular Combat Boot, obtain test items and initiate technical testing and extended user evaluation.
 - 245 Improved Bivy Cover, demonstrate application of advanced materials and designs for an Improved Bivy Cover for the Modular Sleep System.
 - 2835 Advanced Combat Uniform, continue design integration and fabricate 9-12 prototype systems, conduct controlled user evaluation, obtain feedback, conduct early configuration management planning, and achieve Milestone A/B.
 - 330 Provide in-house engineering support services, computer services, conduct technical and program reviews.
- Total 4788

FY 2003 Planned Program

- 310 Modular Combat Boot, complete user evaluation and present results to the Army Uniform Board.
 - 3731 Advanced Combat Uniform, complete developmental contract phase III and complete initial testing.
 - 476 Improved Small Arms Protective Insert, investigate lighter, more producible ceramic materials for increased ballistic protection and reduced weight in the Small Arms Protective Insert for the Interceptor Body Armor System.
 - 364 In-house engineering support services, computer services, conduct technical and program reviews.
- Total 4881

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<u>B. Other Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, 0604713.L40, Clothing and Equipment	5117	4522	4651	5209	5193	5478	5571	Continuing	Continuing
OMA, 121017, Central Funding and Fielding	79590	90013	73401	80941	113533	114101	114672	Continuing	Continuing

C. Acquisition Strategy: Developments transition to engineering and manufacturing development (EMD) followed by transition to production. However, when developments are sufficiently mature for some items, they can be type classified and transitioned to production.

<u>D. Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Life Cycle Systems Review	2-4Q						

A Life Cycle Systems Review is held during the 2nd and 4th quarter of each fiscal year.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Clothing & Individual Equipment	MIPR	SBCCOM, Natick, MA	509	748	1-4Q	1494	1-4Q	1578	1-4Q	Continue	Continue	Continue
b . Clothing & Individual Equipment	Contracts	Various	2268	2167	1-4Q	2250	1-4Q	1964	1-4Q	Continue	Continue	Continue
Subtotal:			2777	2915		3744		3542		Continue	Continue	Continue

Remarks: Product development costs vary annually depending on the number and type of programs being evaluated.

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Misc Support	MIPR	LOGSA, AL	50	50	1-4Q	50	1-4Q	50	1-4Q	Continue	Continue	Continue
b . Misc Support	Contract	Various	0	0		0	1-3Q	0	1-4Q	0	0	0
Subtotal:			50	50		50		50		Continue	Continue	Continue

Remarks: Support costs can vary annually depending on the number and types of items we are evaluating.

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	ATEC, Virginia	140	108	1-4Q	664	1-4Q	925	1-4Q	Continue	Continue	Continue
Subtotal:			140	108		664		925		Continue	Continue	Continue

Remarks: Testing costs vary annually by item.

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Management Support	In House	PM Soldier, Virginia	285	287	1-4Q	330	1-4Q	364	1-4Q	Continue	Continue	Continue
Subtotal:			285	287		330		364		Continue	Continue	Continue

Remarks: Management services costs vary annually depending on the number and type of programs being evaluated. *Based on the number of years Clothing and Individual Equipment programs have been in existence, it is impossible to capture all prior year costs..

Project Total Cost:			3252	3360		4788		4881		Continue	Continue	Continue
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BUDGET ACTIVITY 4 - Demonstration/validation		PE NUMBER AND TITLE 0603747A - Soldier Support and Survivability					PROJECT C09			
COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
C09 SOLDIER SUPPORT EQUIPMENT - AD	6465	8837	12000	13146	13290	10392	10488	0	81483	

A. Mission Description and Budget Item Justification: This project supports development of critical soldier support systems such as shelters, showers, latrines, heaters, and other combat service support equipment that will improve unit sustainability and combat effectiveness. Project supports demonstration and validation of aerial delivery systems for personnel and equipment, with emphasis on reduced incidence of injuries, improved safety and accuracy, and increased survivability of aircraft, personnel, and equipment. Project also supports the development of tactical rigid-wall shelters which provide highly mobile, joint service platforms for the digitization of the battlefield, housing of critical vehicle-mounted battlefield systems, medical care capabilities and high tech maintenance.

This project supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.

FY 2001 Accomplishments:

- 2021 Continued Testing and Evaluation on the Dual Row Airdrop Capability (DRAC). Initiated load certification.
- 1200 Procured initial test items for the DRAC (40 @ \$30K ea).
- 570 Conducted Milestone B program initiation for Enhanced Container Delivery Capability (ECDC). Conducted design verification and systems integration testing.
- 160 Developed test items for the ECDC (16 @ \$10K ea).
- 500 Conducted market investigation for the Containerized Batch Laundry (CBL), and initiated development and design of prototypes. Demonstrated that CBL technologies perform successfully in the intended operational environment. Transitioned into System Development Demonstration (SDD).
- 371 Conducted Market Survey, prepared Milestone B decision package for Mobile Integrated Remains Collection System (MIRCS).
- 1010 Conducted initial market investigation for development of Cargo Bed Covers (CBC), for High Mobility Trailer Variants. Initiated CBC Type I and II Pre-Planned Product Improvement efforts.
- 633 Conducted Market Investigation for Extraction Parachute Jettison System (EPJS)- Heavy. Completed Milestone B package.

Total 6465

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FY 2002 Planned Program

- 700 Complete Market Investigation and consolidate existing data to support a Milestone B Decision on Low Cost Aerial Delivery Capability. Conduct initial testing to evaluate integrated technologies and assess integration risks.
- 450 Conduct Market Investigation, conduct MS B, prepare and award developmental contract, and initiate prototype design of the Clothing Repair System (CRS).
- 700 Conduct Milestone B decision and develop initial test prototypes of Mobile Integrated Remains Collection System(MIRCS) (2 @ \$350K ea.) to demonstrate subsystem interoperability and reduce integration risks.
- 1270 Complete DRAC single ship and formation drop evaluations.
- 800 Award contracts for EPJS(H) components and purchase safety of flight test items to conduct initial testing to assess risk.
- 900 Conduct EPJS(H) electronic emissions evaluation. Prepare and conduct Safety of flight evaluations at Edwards Air Force Base on EPJS (H) components.
- 750 Award development contract for Enhanced Container Delivery Capability (ECDC) components and purchase initial developmental test items.
- 700 Prepare and conduct initial testing on the ECDC to evaluate integrated technologies and assess risk. Transition to SDD.
- 1576 Conduct Market Investigation, prepare documentation for Milestone B and prepare contract for prototype development of the Rapid Rigging/De-rigging Air Drop System (RRDAS).
- 991 Conduct MS B and award initial RDT&E contract for Cargo Bed Covers for High Mobility Trailer Variants. Initiate Cargo Bed Cover Type III/IV P3I effort.

Total 8837

FY 2003 Planned Program

- 700 Fabricate prototype of Clothing Repair System prototypes (2 @ \$350K ea) and conduct initial evaluation of operational suitability. Transition to SDD.
- 1186 Conduct Market Investigation for subsystems of the Battlefield Hygiene System and award development contract to integrate demonstrated subsystems and components.
- 1175 Complete MIRCS System Integration, complete initial development testing and transition to SDD.
- 1150 Purchase initial developmental test items and data items for EPJS(H).

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FY 2003 Planned Program (Continued)

- 950 Prepare for and conduct testing of EPJS(H) as a complete integrated system.
- 1500 Conduct market investigation, complete Milestone B, and award initial RDT&E effort for the Ballistic Protection System.
- 4275 Conduct initial Safety of Flight and Emissions Testing on the RRDAS. Evaluate systems and technologies in the intended operational environment. Prepare for transition to SDD.
- 500 Procure test items for the RRDAS (5 @ \$100K ea.).
- 564 Conduct market investigation, complete Milestone B and award initial RDT&E effort for Ammunition Solar Cover.

Total 12000

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<u>B. Other Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, 0604713.C40, Soldier Support Equipment	8636	8643	13367	14059	14418	11145	11159	Continuing	Continuing
M82706, Containerized Latrine System	0	1021	666	870	0	0	0	0	2557
M82708, Containerized Batch Laundry	0	0	3008	3997	3962	0	0	0	10967
MA7805, Universal Static Line	3934	0	0	0	0	0	0	0	4910

C. Acquisition Strategy: Accelerate product development and testing to transition to Engineering and Manufacturing Development and/or Production.

<u>D. Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Complete Dual Row Airdrop System single ship and formation drop evaluations.		2Q					
Initiate MIRCS Market Survey	1Q						
Complete Milestone B for MIRCS		2Q					
Award R&D Contract to fabricate MIRCS prototypes		2Q					
Fabricate Prototype MIRCS		4Q					
Conduct initial system tests on MIRCS.			4Q				
Conduct MS B and award RDT&E contract for Cargo Bed Cover High Mobility Trailer variant		4Q					
Conduct MS B on Extraction Parachute Jettison Device - Heavy	4Q						
Conduct MS B on Enhanced Container Delivery Capability (ECDC)	3Q						
Conduct Safety of Flight and Emissions Testing on the EPJS - Heavy		2Q					
Conduct Testing on the ECDC and transition to SDD		4Q					
Conduct Testing on the EPJS - Heavy as a system			3Q				
Conduct Safety of Flight and Emissions Testing on RRDAS			3Q				

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D. Schedule Profile (continued)	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Conduct MS B and award development contract for CRS		3Q					
Conduct testing of CRS concept			4Q				
Conduct Milestone B on Ballistic Protection System			2Q				
Conduct Milestone B on Ammunition Solar Cover			2Q				

ARMY RDT&E COST ANALYSIS(R-3)

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Soldier Support Equipment	In-House	SBCCOM (NRDEC), Natick, MA	14424	1930	1-4Q	2880	1-4Q	3564	1-4Q	Continue	Continue	Continue
b . Soldier Support Equipment	Contracts	Various	9927	2624	1-3Q	3456	1-4Q	3903	1-4Q	Continue	Continue	Continue
Subtotal:			24351	4554		6336		7467		Continue	Continue	Continue

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Remarks: Not Applicable

ARMY RDT&E COST ANALYSIS(R-3)

February 2002

BUDGET ACTIVITY
4 - Demonstration/validation

PE NUMBER AND TITLE
0603747A - Soldier Support and Survivability

PROJECT
C09

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Soldier Support Equipment	MIPR	DTC, Maryland & ATC, Virginia	4250	1253	1-4Q	1496	1-4Q	3083	1-4Q	Continue	Continue	Continue
Subtotal:			4250	1253		1496		3083		Continue	Continue	Continue

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Management Support	In-House	PM-Soldier Support, Virginia	2166	658	1-3Q	1005	1-4Q	1450	1-4Q	Continue	Continue	Continue
b . Project Management Support	In-House	SBCCOM, Natick, MA	361	0		0		0		0	361	0
Subtotal:			2527	658		1005		1450		Continue	Continue	Continue

Project Total Cost:			31128	6465		8837		12000		Continue	Continue	Continue
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