

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604804A - Logistics and Engineer Equipment Engineering Dev

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	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	22065	24333	30673	0	0	0	0	0	0	0
194 ENGINE DRIVEN GEN ED	7691	5077	5008	0	0	0	0	0	0	0
429 RIGIDWALL SHELTER ED	0	4063	3515	0	0	0	0	0	0	0
461 MARINE ORIEN LOG EQ ED	3763	1434	6234	0	0	0	0	0	0	0
H01 COMBAT ENGINEER EQ ED	2569	816	2653	0	0	0	0	0	0	0
H02 TACTICAL BRIDGING - ENGINEERING DEVELOPMENT	0	637	1114	0	0	0	0	0	0	0
H14 MATERIALS HANDLING EQUIPMENT - ED	99	590	596	0	0	0	0	0	0	0
L39 ENVIRONMENTAL EQUIPMENT - ED	3216	4487	3003	0	0	0	0	0	0	0
L41 WATER AND PETROLEUM DISTRIBUTION - ED	4298	6280	7366	0	0	0	0	0	0	0
L42 CAMOUFLAGE SYSTEM ED	377	376	329	0	0	0	0	0	0	0
L43 ENGINEER SUPPORT EQUIPMENT - ED	52	573	855	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

Included within this program element is the development of military tactical bridging, materiel handling equipment, construction equipment, engineer support equipment, environmental equipment, water purification equipment, petroleum distribution equipment, mobile electric power and water craft. This project supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	22844	20457	17664	0
Appropriated Value	22996	24557	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-596	0	0	
c. Omnibus or Other Above Threshold Reductions Inflation	-90	0	0	
d. Below Threshold Reprogramming	-183	0	0	
e. Rescissions	-62	-224	0	
Adjustments to Budget Years Since FY2001 PB	0	0	13009	
Current Budget Submit (FY 2002/2003 PB)	22065	24333	30673	0

Funding - FY 2002: Increase \$13,009K supports Rigidwall Shelters, Engine Driven Generators, Marine Oriented Logistics and combat Engineer Equipment development.

Funding - FY 2003: Increase \$9,555K supports Rigidwall Shelters, Engine Driven Generators, Combat Engineer Equipment, Tactical Bridging and Water and Petroleum Distribution development.

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 194		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
194 ENGINE DRIVEN GEN ED	7691	5077	5008	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project supports the system development and demonstration of a series of diesel engine driven generator sets/auxiliary power units and provide continual modernization of fielded sets in order to meet federally mandated environmental statutes with reduced weight and size and reduced thermal signatures. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p>FY 2000 Accomplishments</p> <ul style="list-style-type: none"> 462 Completed Deployable Power Generation and Distribution System (DPGDS) test and evaluation. 4367 Initiated hardware system development and demonstration for 100 & 200kW Tactical Quiet Generator (TQG). (Qty - 8) 2862 Designed and fabricated small set prototype 5-60kW Advanced Medium Sized Mobile Power Source (AMMPS). (Qty - 6) <p>Total 7691</p> <p>FY 2001 Planned Program</p> <ul style="list-style-type: none"> 3544 Continue hardware system development & demonstration for 100 & 200kW TQG. (Qty - 28). 1395 Complete fabrication and initiate evaluation and demonstration of 5-60kW AMMPS prototypes. (Qty - 6). 138 Small Business Innovation Research/ Small Business Technology Transfer Program <p>Total 5077</p>										

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**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

194

FY 2002 Planned Program

- 3900 Continue hardware system development and demonstration for 100/200kW TQG.
- 558 Complete Performance Specification for AMMPS.
- 550 Complete testing of AMMPS.

Total 5008

<u>B. Other Program Funding Summary</u>	<u>FY 2000</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>
0603804A - Logistics and Engineer Equipment Adv Dev G11	964	719	1004	0	0	0	0	0	0	0
Other Procurement, Army BA Generators & Assoc. Equip (MA9800	77834	88047	59768	0	0	0	0	0	0	0

C. Acquisition Strategy: Develop and transition to competitive procurement all items in this project.

<u>D. Schedule Profile</u>	<u>FY 2000</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>
Award competitive contract(s) for design, prototype fabrication & testing of 100/200kW TQG (Phase I)	2Q			0	0	0	0	0
Complete testing of DPGDS	4Q			0	0	0	0	0
Award contract for AMMPS proof of principle prototype	2Q			0	0	0	0	0
Milestone C of DPGDS	4Q			0	0	0	0	0
Award Phase II system development and demonstration for fabrication of PPQT 100/200kW TQG sets		3Q		0	0	0	0	0
Complete fabrication 5-60kW AMMPS proof of principle prototype		3Q		0	0	0	0	0
Initiate testing of AMMPS proof of principle prototype		3Q		0	0	0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001	
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev			PROJECT 194	
<u>D. Schedule Profile (continued)</u>	<u>FY 2000</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>
Develop solicitation package for AMMPS			2Q	0	0	0	0	0
Complete AMMPS prototype testing			4Q	0	0	0	0	0
Transition 100/200kW TQG to Procurement (Milestone C)				0	0	0	0	0
Award Phase I contracts for AMMPS: Develop military system				0	0	0	0	0
Initiate Phase I testing of AMMPS				0	0	0	0	0
Award Phase II contract for AMMPS family				0	0	0	0	0
Transition ACE capabilities to Man Portable Power (MPP) program				0	0	0	0	0
Complete testing of Phase II AMMPS				0	0	0	0	0
Begin preparation of Performance Specification for Man Portable Power Program				0	0	0	0	0
AMMPS transition to production and deployment				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 194		
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 . 100/200kW	C-CPFF	Fermont & Gen Dyn Robotics Systems, Bridgeport, CT	3800	3184	3Q	1300	1Q	0	0	0	0	0
b . AMMPS(5-60kW)	Small Purchase	Oak Ridge National Laboratories (ORNL), Oak Ridge, TN	200	0		0		0	0	0	0	0
c . AMMPS(5-60kW)	C-CPFF	CECOM, Ft Belvoir, VA	2871	810	1Q	0		0	0	0	0	0
Subtotal:			6871	3994		1300		0		0	0	0
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 . AMMPS(5-60kW)	In-house	CECOM, Ft Belvoir, VA	730	385	1Q	367	1Q	0	0	0	0	0
b . 100/200kW	In-house	CECOM, Ft Belvoir, VA	409	210	1Q	250	1Q	0	0	0	0	0
c . DPGDS	In-house	CECOM, Ft Belvoir, VA	830	0		0		0	0	0	0	0
Subtotal:			1969	595		617		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 194		
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 . DPGDS	MIPR	Eglin AFB, FL	362	0		0		0	0	0	0	0
b . 100/200kW	TBD	TBD	0	0		2200	1Q	0	0	0	0	Continue
c . AMMPS(5-60kW)	TBD	TBD	75	0		550	1Q	0	0	0	0	0
Subtotal:			437	0		2750		0		0	0	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 . DPGDS	In-house	CECOM, Ft Belvoir, VA	400	0		0		0	0	0	0	0
b . 100/200kW	In-house	CECOM, Ft Belvoir, VA	372	288	1Q	150	1Q	0	0	0	0	Continue
c . AMMPS(5-60kW)	In-house	CECOM, Ft Belvoir, VA	457	200	1Q	191	1Q	0	0	0	0	0
Subtotal:			1229	488		341		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)							June 2001						
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 194					
Project Total Cost:				10506	5077		5008		0		0	0	Continue

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 429			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
429	RIGIDWALL SHELTER ED	0	4063	3515	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project supports the development of a series of Standardized Integrated Command Post System (SICPS) Platforms such as Rigid Wall Shelters (RWS) and Large SICPS Shelter (LSS), with added capabilities and enhanced survivability in support of Light Digitized Tactical Operational Centers (TOC) requirements.</p> <p><u>FY 2000 Accomplishments</u> Program not funded.</p> <p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> 572 RWS Intelligent Power Management System (IPMS) administration and engineering support 500 Contract with Custom Manufacture Engineering (CME)to develop, fabricate, and manufacture IPMS prototypes. 2870 Procure SICPS Platforms, integrate IPMS, and perform development and operational testing. 121 Small Business Innovation Research/Small Business technology transfer (SBIR/STTR) Programs <p>Total 4063</p>											

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**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

429

FY 2002 Planned Program

- 2000 Initiate development of Large Standardized Integrated Command Post System (SICPS) Shelter
 - 1515 Initiate hardware development of improved shelter integration components for TOC shelters
- Total 3515

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

Not applicable for this item.

C. Acquisition Strategy: Develop and transition to competitive procurement all items in this project

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Develop, fabricate, and manufacture IPMS prototypes		2Q		0	0	0	0	0
Integrate and test IPMS		4Q		0	0	0	0	0
Initiate component procurement/fabrication and integration of Large SICPS prototypes			1Q	0	0	0	0	0
Initiate hardware development of improved integration components for TOC shelters			1Q	0	0	0	0	0
Complete integration of Large SICPS prototypes				0	0	0	0	0
Complete hardware development improved integration components for TOC shelters				0	0	0	0	0
Initiate development testing (DT) of Large SICPS shelter				0	0	0	0	0
Initiate testing of TOC shelter components				0	0	0	0	0
Complete DT of Large SICPS Shelter				0	0	0	0	0
Complete testing of TOC shelter components				0	0	0	0	0
Begin integration of TOC components into shelters				0	0	0	0	0
Complete integration of TOC components into shelters				0	0	0	0	0

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Engineering Dev**

PROJECT

429

D. Schedule Profile (continued)

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Begin Operational Testing (OT) of Large SICPS Shelter				0	0	0	0	0
Complete OT of Large SICPS Shelter				0	0	0	0	0
Begin DT/OT of integrated TOC shelters				0	0	0	0	0
Complete DT/OT of integrated TOC shelters				0	0	0	0	0
Type Classify Large SICPS Shelter				0	0	0	0	0
Type Classify TOC shelter				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 429		
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 . IPMS Development	In House	Contractor CME, St Petersburg, FL	0	500		0		0	0	0	0	0
b . Large SICPS	In House	SBCCOM, Natick, MA	0	0		1498	1-4Q	0	0	0	0	Continue
c . TOC Components	In House	SBCCOM, Natick, MA	0	0		1000	1-4Q	0	0	0	0	Continue
Subtotal:			0	500		2498		0		0	0	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
a . IPMS admin and engineering support	In House	C2D, Fort Monmouth, NJ	0	693		0		0	0	0	0	0
b . Large SICPS	In House	SBCCOM In-house	0	0		250	1-4Q	0	0	0	0	Continue
c . TOC Components	In House	SBCCOM In-house	0	0		250	1-4Q	0	0	0	0	Continue
Subtotal:			0	693		500		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 429		
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 . IPMS integration and test	In House	Contractor CME, St Petersburg, FL	0	2870	1-4Q	0		0	0	0	0	0
Subtotal:			0	2870		0		0		0	0	0
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 . Large SICPS Shelter	In House	SBCCOM, Natick, MA	0	0		267	1-4Q	0	0	0	0	Continue
b . TOC Components	In House	SBCCOM, Natick, MA	0	0		250	1-4Q	0	0	0	0	Continue
Subtotal:			0	0		517		0		0	0	Continue
Project Total Cost:			0	4063		3515		0		0	0	Continue

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 461		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
461 MARINE ORIEN LOG EQ ED	3763	1434	6234	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project provides funds for the engineering and pre-production development of equipment in support of the Army's Logistics-Over-The-Shore (LOTS), In-theatre Port Control, and Intercoastal/Riverine Logistics missions. Projects supported include engineering development for the Navy led Joint Modular Lighterage System (JMLS), and the Army's Rapidly Installed Breakwater (RIB) Project; both of which are aimed at allowing defense forces to continue to offload critical equipment and supplies under challenging sea state conditions. Funds also support pre-production activity on the Logistics Support Vessel (LSV) Extended Service Program (ESP)/Upgrade and the Harbormaster Command and Control Center (HCCC). The HCCC program will provide for the safe and effective management of Army and Joint Port Operations during deployment of forces; both under LOTS conditions and operations in existing port facilities. Future efforts will complete development effort on the Landing Craft Utility (LCU) Recapitalization and the Theatre Support Vessel(TSV). This system supports the Legacy-to-objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 2620 Continued development of Joint Modular Lighterage System (JMLS) (Sea State 3 Capable) with Navy. 400 Completed performance specifications, purchase description and other pre-production documents for the LSV ESP/Upgrade. 743 Continued Harbormaster Command and Control Center(HCCC) development. <p>Total 3763</p> <p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> 612 Continue development of JMLS in preparation for the Military User Assessment(MUA). 786 Complete final development, fabricate prototype, and begin testing for Harbormaster Command and Control Center (HCCC). 36 Small Business Innovative Research/ Small Business Technology Transfer Program <p>Total 1434</p>										

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**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

461

FY 2002 Planned Program

- 425 Fabricate and demonstrate Rapidly Installed Breakwater(RIB) delivery system.
- 809 Identify hardware improvements for Landing Craft Utility(LCU) recapitalization.
- 5000 Complete JMLS development.

Total 6234

<u>B. Other Program Funding Summary</u>	<u>FY 2000</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, 0603804A, D526, Marine Oriented Logistics, Advanced De	3703	2280	2013	0	0	0	0	0	0	0
OPA 3, R97500, Causeway, Systems	6669	17069	0	0	0	0	0	0	0	0
OPA 3, M11200, Logistic Support Vessel (LSV)	22514	0	25437	0	0	0	0	0	0	0
OPA 3, M11203, Theatre Support Vessel (TSV)	0	0	0	0	0	0	0	0	0	0

C. Acquisition Strategy: Develop and transition to competitive procurement all items in this project.

<u>D. Schedule Profile</u>	<u>FY 2000</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>
Joint Modular Lighterage System (JMLS) Award	1-2Q	1-2Q		0	0	0	0	0
Rapidly Installed Breakwater (RIB) Awards			1-2Q	0	0	0	0	0
Harbormaster Command & Control Center (HCCC) Contract Award	1-3Q	2-4Q		0	0	0	0	0
LCU Parameters and Performance Characteristics		2-4Q	2-4Q	0	0	0	0	0
Combat Logistics Vehicle Concept Development				0	0	0	0	0
Operations & Support Cost Reduction Study				0	0	0	0	0
EPP Utility Craft Assessment				0	0	0	0	0
New Large Tug				0	0	0	0	0

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 461			
D. Schedule Profile (continued)				FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 461		
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 . LSV	MIPR	Navy (NSWC), Suffolk, VA	315	0		0		0	0	0	0	0
b . RIB	FC-FP	Modern Technologies Inc, Warren, MI	477	0		100	1-4Q	0	0	0	0	0
c . JMLS	MIPR	Navy (PM JMLS), Hueneme, CA	1181	362	1-4Q	3700	1-4Q	0	0	0	0	0
d . RIB	MIPR	Corps of Engineers (WES), Vicksburg, MI	756	0		190	1-4Q	0	0	0	0	0
e . LSV ESP/Upgrade	MIPR	Navy (NSWC), Suffolk, VA	251	0		0		0	0	0	0	0
f . HCCC	MIPR	IOC, Rock Island Arsenal	0	150	1-4Q	0		0	0	0	0	0
g . HCCC	FC-FP	Conley & Associates, St.Louis, MO	0	300	1-4Q	0		0	0	0	0	0
h . TSV	MIPR	NSWC, Suffolk, VA	0	0		0		0	0	0	0	0
i . LCU Recap	MIPR	NSWC, Suffolk, VA	0	0		706	1-4Q	0	0	0	0	0
Subtotal:			2980	812		4696		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 461		
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 . JMLS	MIPR	TACOM CBU, Warren, MI	23	100	1-4Q	198	1-4Q	0	0	0	0	0
b . RIB	MIPR	TACOM CBU, Warren, MI	25	0		10	1-4Q	0	0	0	0	0
c . LSV ESP/Upgrade	MIPR	TACOM CBU, Warren, MI	7	0		0		0	0	0	0	0
d . HCCC	MIPR	TACOM CBU, Warren, MI	0	15	1-4Q	0		0	0	0	0	0
e . TSV	MIPR	TACOM CBU, Warren, MI	0	0		0		0	0	0	0	0
f . LCU Recap	MIPR	TACOM CBU, Warren, MI	0	0		5	1-4Q	0	0	0	0	0
Subtotal:			55	115		213		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 461		
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 . LSV	MIPR	TECOM , ATC, Aberdeen, MD	20	0		0		0	0	0	0	0
b . JMLS	MIPR	TECOM , ATC, Aberdeen, MD	40	50	1-4Q	800	1-4Q	0	0	0	0	0
c . RIB	MIPR	TECOM , ATC, Aberdeen, MD	60	0		25	1-4Q	0	0	0	0	0
d . LSV ESP/Upgrade	MIPR	TECOM , ATC, Aberdeen, MD	10	0		0		0	0	0	0	0
e . HCCC	MIPR	TECOM , ATC, Aberdeen, MD	0	50	1-4Q	0		0	0	0	0	0
f . TSV	MIPR	TECOM, ATC, Aberdeen, MD	0	0		0		0	0	0	0	0
g . LCU Recap	MIPR	TECOM, ATC, Aberdeen, MD	0	0		0		0	0	0	0	0
Subtotal:			130	100		825		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT 461		
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 . CMF	MIPR	PM Army Watercraft Systems , TACOM, Warren, MI	0	0		0		0	0	0	0	0
b . LSV	MIPR	PM Army Watercraft Systems , TACOM, Warren, MI	125	0		0		0	0	0	0	0
c . JMLS	MIPR	TARDEC, Warren, MI	287	195	1-4Q	300	1-4Q	0	0	0	0	0
d . RIB	MIPR	PM Force Projection R&D /TARDEC, Warren, MI	186	0		100	1-4Q	0	0	0	0	0
e . LSV ESP/Upgrade	MIPR	PM Army Watercraft Systems , TACOM, Warren, MI	0	0		0		0	0	0	0	0
f . HCCC	MIPR	PM Force Projection R&D/TARDEC, TACOM, Warren, MI	0	212	1-4Q	0		0	0	0	0	0
g . TSV	MIPR	PM Force Projection R&D/TARDEC, Warren, MI	0	0		0		0	0	0	0	0
h . LCU Recap	MIPR	PM Force Projection R&D/TARDEC, Warren, MI	0	0		100	1-4Q	0	0	0	0	0
Subtotal:			598	407		500		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)							June 2001					
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT 461				
Project Total Cost:				3763	1434		6234		0	0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT H01	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
H01 COMBAT ENGINEER EQ ED	2569	816	2653	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project supports the Engineering and Manufacturing Development (EMD) of military Construction Equipment such as: Tracked Tractor; Asphalt Equipment; Scrapers and Graders. Many of these systems support the Army's Division Redesign Study (ADRS) to convert National Guard units to Combat Service Support (CSS) units. Lines of Communications (LOC) Bridging EMD efforts prior to FY01 were funded in this DH01 project line before being moved to project DH02 in this PE. Although many military requirements are available on commercial products, military unique requirements such as speed, cross country mobility, crew protection, paint and transportability (air, sea, rail) result in modifications to commercially available products. EMD is required to reduce the risk associated with this integration before entering into production. This project supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).</p> <p>FY 2000 Accomplishments</p> <ul style="list-style-type: none"> 400 Completed Heavy Dry Support Bridge (HDSB) prototype contracts. (Qty - 2) 228 Completed PQT of HDSB. 441 Awarded Bridge Erection Boat (BEB) prototype contract. (Qty - 4) 332 Prepared IRB Production Solicitation. 628 Initiated Bridge Crossing Simulator. 540 Conducted market investigations, revised performance specifications, performed Non-Developmental Item (NDI) testing, for reprocurments of Construction Equipment (CE). <p>Total 2569</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001****BUDGET ACTIVITY****5 - ENG MANUFACTURING DEV****PE NUMBER AND TITLE****0604804A - Logistics and Engineer Equipment
Engineering Dev****PROJECT****H01****FY 2001 Planned Program**

- 53 Conduct market surveillance.
 - 134 Conduct market investigations and update specifications for reprocrements of CE.
 - 605 Support development of and the revision of CE acquisition documents required prior to milestone "C" decisions.
 - 24 Small Business Innovation Research/Small Business technology transfer (SBIR/STTR) Programs
- Total 816

FY 2002 Planned Program

- 119 Conduct market surveillance.
 - 194 Conduct market investigations and update of specifications for reprocrements of CE.
 - 590 Support development of and the revision of CE acquisition documents required prior to milestone "C" decisions.
 - 500 Perform NDI evaluations and testing.
 - 100 LOG demo of IHMEE.
 - 1150 Prototype contract and hardware development.
- Total 2653

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

H01

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, M06100, Tractor, Full Tracked Low Sp	0	0	2018	0	0	0	0	0	0	0
OPA3, M07000, Crushing/Screen Plan	4101	89	4474	0	0	0	0	0	0	0
OPA3, R02800, Scraper, Earthmoving 14-18 Cu	0	0	0	0	0	0	0	0	0	0
OPA3, R03801, Grader, Mtzd, Hvy	0	0	0	0	0	0	0	0	0	0
OPA3, R05900 Tactical Rapid Ex System (TRES)	0	0	5031	0	0	0	0	0	0	0
OPA3, M08100, Plant, Asphalt Mixing	0	0	2013	0	0	0	0	0	0	0
OPA3, ML5350, Item Less than \$5M (Construction Equipment)	4261	6575	12428	0	0	0	0	0	0	0

C. Acquisition Strategy:HMEE - Competitive RDTE followed by competitive procurement.

Construction Equipment- All RDT&E followed by competitive procurement.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
NDI Testing			1-2Q	0	0	0	0	0
Log Demo			3Q	0	0	0	0	0
Market Surveillance	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Market Investigations	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Acquisition documents	1-4Q	1-4Q	1-4Q	0	0	0	0	0
TRES EMD Contracts			3-4Q	0	0	0	0	0
TRES Testing				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT H01		
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 . BEB EMD Contract	FFP	North American Marine Jet, Benton AK	149	0		0		0	0	0	0	0
b . PM/Matrix Support	MIPR	TACOM, Warren, MI	7424	653	1-4Q	590	1-4Q	0	0	0	0	0
c . TARDEC	In-House	TARDEC, Warren, MI	540	110	1-4Q	294	1-4Q	0	0	0	0	0
d . TRES EMD Contract	FFP	TBD	0	0		1150	3-4Q	0	0	0	0	0
Subtotal:			8113	763		2034		0		0	0	0
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 . Studies for Future Capabilities	In House	TARDEC, Warren, MI	0	53	1-4Q	119	1-4Q	0	0	0	0	0
Subtotal:			0	53		119		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT H01		
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 . Bridge Crossing Simulation	MIPR	TECOM, Aberdeen, MD	728	0		0		0	0	0	0	0
b . Test and Prep	MIPR	APG, Aberdeen, MD	1121	0		500	1-2Q	0	0	0	0	0
Subtotal:			1849	0		500		0		0	0	0
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
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			9962	816		2653		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT H02			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
H02	TACTICAL BRIDGING - ENGINEERING DEVELOPMENT	0	637	1114	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> This project supports the engineering development and transition to procurement of Objective Force tactical bridge systems. These systems include Line of Communication (LOC) bridges and military tactical bridge site mobility equipment. These systems are needed to meet requirements such as the Anchorage System (AS) for the Ribbon Bridge and Improved Ribbon Bridge (IRB), Access/Egress Roadway System (AE) for bridge approaches, and assessment of the Rapidly Emplaced Bridging System (REBS).</p> <p><u>FY 2000 Accomplishments</u> Project not funded in FY 2000.</p> <p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> 100 Conduct Market investigation for Anchorage System (AS). 518 Assess the merits of current boats using rebuilt boat engines versus more powerful commercially available boats. Boats for improved ribbon bridge installations. 19 SBIR/STTR <p>Total 637</p>											

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

H02

FY 2002 Planned Program

- 800 Procure Representative Samples for use in developing performance specifications for AS.
- 314 Conduct Market investigation for Access Egress Roadway System (AE).

Total 1114

B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, M27200 Float Bridge Propulsion	0	1924	1951	0	0	0	0	0	0	0
OPA3, G82402 Rapidly Emplaced Bridging Sys	0	4991	5031	0	0	0	0	0	0	0

C. Acquisition Strategy: Not applicable for this item.

D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
AS Market Investigation complete		3Q		0	0	0	0	0
Conduct Boat Design Analysis		3-4Q		0	0	0	0	0
Procure AS Representatives Samples			2Q	0	0	0	0	0
AE Market Investigation complete			2Q	0	0	0	0	0
AS Testing				0	0	0	0	0
Procure AE Representatives Samples				0	0	0	0	0
LOC Market Investigation complete				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT H02		
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 . AS Samples	C-CPFF	TBD	0	0		800	2Q	0	0	0	0	0
b . AE Samples	C-CPFF	TBD	0	0		0		0	0	0	0	0
c . PM/Matrix Support	MIPR	TACOM, Warren, MI	0	637	3Q	314	2Q	0	0	0	0	0
Subtotal:			0	637		1114		0		0	0	0
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

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT H02		
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 . AE	MIPR	APG, Aberdeen, MD	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0
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
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			0	637		1114		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT L39		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L39 ENVIRONMENTAL EQUIPMENT - ED	3216	4487	3003	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>Project develops for transition to procurement large capacity heater and environmental control units (ECU) that do not use ozone depleting refrigerants. These systems support the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p>Note: Water Purification System Development after FY00 is reflected in Project DL41.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> • 327 Continued engineering and management support of the 1500 GPH PQT/EUT. • 168 Continued contractor support of PQT and completion of 1500 GPH Tactical Water Purification System (TWPS) SDD contract. • 351 Continued engineering and management support of 1500 GPH TWPS SDD contract effort. • 940 Completed 1500 TWPS SDD contract award increment • 890 Completed PQT/EUT for 1500 GPH TWPS. • 30 Conducted market survey for the Large Capacity Field Heater (LCFH) • 84 Initiated program documentation (MS B and SDD Contract Packages) for the LCFH. • 226 Completed program documentation (MS B and SDD Contract packages) for the Improved Environmental Control Unit (IECU) and conducted MS B program review. • 200 Developed and tested IECU prototype for verification of SDD Performance Specification. (Quantity 1) <p>Total 3216</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001****BUDGET ACTIVITY****5 - ENG MANUFACTURING DEV****PE NUMBER AND TITLE****0604804A - Logistics and Engineer Equipment
Engineering Dev****PROJECT****L39****FY 2001 Planned Program**

- 1373 Develop designs for three horizontal IECU configurations.
- 720 Fabricate 36 (12 each 9k, 18k, & 36kBTUH) Engineering Development Models of three horizontal IECU configurations for PQT and User Evaluation.
- 650 Initiate PQT of IECU Engineering Development Models.
- 730 Engineering and management support of IECU Program.
- 150 Complete MS B documentation for the LCFH and conduct MS B program review.
- 100 Develop design for Large Capacity Field Heater (LCFH)
- 300 Fabricate 10 Engineering Development Models of LCFH for PQT and IOT&E.
- 115 Initiate PQT of LCFH Engineering Development Models.
- 220 Engineering and management support of for LCFH Program.
- 129 Small Business Innovation Research/Small Business Technology Transfer Program

Total 4487

FY 2002 Planned Program

- 182 Procure Logistics Support Documentation for Large Capacity Heater.
- 268 Conduct PQT of LCFH Engineering Development Models.
- 545 Engineering and management support for LCFH Program.
- 750 Engineering and management support for IECU Program.
- 718 Complete PQT and User Evaluation of IECU Engineering Development Models.
- 140 Prepare documentation for and conduct MS C program review for IECU Program.
- 100 Develop design for LCFH.
- 300 Fabricate 10 engineering development models of LCFH for PQT and IOT&E.

Total 3003

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

L39

B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, MF9000, Environmental Control Units (ECU)	5829	6290	5082	0	0	0	0	0	0	0

C. Acquisition Strategy: Development and transition to competitive procurement for all items under this project.

D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Complete 1500 TWPS prototype fabrication.	2Q			0	0	0	0	0
Complete contractor testing on 1500 TWPS.	2Q			0	0	0	0	0
Complete PQT/EUT on 1500 TWPS	4Q			0	0	0	0	0
MS B IPR for IECU		1Q		0	0	0	0	0
Release SDD RFP for IECU		2Q		0	0	0	0	0
Award SDD contract for IECU		3Q		0	0	0	0	0
Complete Testing for IECU			4Q	0	0	0	0	0
MS C/TC for IECU				0	0	0	0	0
LCFH - MS B		3Q		0	0	0	0	0
LCFH - SDD Contract Award			1Q	0	0	0	0	0
LCFH - Complete SDD Models			3Q	0	0	0	0	0
LCFH - Complete PQT and IOT&E				0	0	0	0	0
LCFH - Conduct MS C				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L39		
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 . 1500 GPH TWPS	In-house	TARDEC, Warren, MI	3048	0		0		0	0	0	0	0
b . 1500 GPH TWPS	C-CPFF	SFA, Inc., Frederick, MD	168	0		0		0	0	0	0	0
c . Large Capacity Field Heater SDD	C-CPFF	TBD	0	0		507	1Q	0	0	0	0	0
d . LCFH Engr	In-house	US Army CECOM, Ft. Belvoir, VA	96	359	1-4Q	415	1-4Q	0	0	0	0	0
e . Engr. IECU SDD	In-house	US Army CECOM, Ft. Belvoir, VA	266	474	1-4Q	700	1-4Q	0	0	0	0	0
f . IECU SDD	C-CPFF	TBD	0	2143	2Q	613	1Q	0	0	0	0	0
Subtotal:			3578	2976		2235		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L39		
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 . Engr & Mgt Support of 1500 TWPS Contract	MIPR	NFESC, Port Huaneme, CA	351	0		0		0	0	0	0	0
b . 1500 TWPS SDD	MIPR	NFESC, Port Huaneme, CA	940	0		0		0	0	0	0	0
c . Engr & Mgt Support of IECU	MIPR	US Army CECOM, Ft. Belvoir, VA	0	20	3Q	0		0	0	0	0	0
Subtotal:			1291	20		0		0		0	0	0
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 . PQT (1500 TWPS)	MIPR	TECOM (ATC), Aberdeen, MD	910	0		0		0	0	0	0	0
b . PQT (Large Capacity Field Heater)	C-CPFF	TBD	0	0		343	1Q	0	0	0	0	0
c . IOT&E (Large Capacity Field Heater)	MIPR	ATEC, Alexandria, VA	0	0		0		0	0	0	0	0
d . Engineering tests of IECU prototypes	C-CPFF	Various	97	1115	3Q	105	1Q	0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L39		
III. Test and Evaluation (continued)	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
e . User Evaluation of IECU	MIPR	ATEC, Alexandria, VA	0	0		50	1-4Q	0	0	0	0	0
Subtotal:			1007	1115		498		0		0	0	0
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 . Large Capacity Field Heater management	In-house	US Army CECOM, Ft Belvoir, VA	43	140	1-4Q	130	1-4Q	0	0	0	0	0
b . IECU	In-house	US Army CECOM, Ft Belvoir, VA	38	236	1-4Q	140	1-4Q	0	0	0	0	0
Subtotal:			81	376		270		0		0	0	0
Project Total Cost:			5957	4487		3003		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L41	WATER AND PETROLEUM DISTRIBUTION - ED	4298	6280	7366	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>The Army has the mission to supply fuel for all land-based forces, including the Marines and the Air Force. This developmental program provides the capability to perform battlefield sustainment operations, including receiving and transferring petroleum from trucks, ships, and permanent and temporary storage facilities; moving petroleum between storage to and within corps and division areas; quality surveillance testing; and dispensing in support of tactical operations, including rapid refueling of airfields. These R&D efforts support the development and enhancement of rapidly deployed Petroleum and Water equipment which enables the Army to achieve its transformation vision by providing it with the means to be highly mobile and self sustaining in very hostile theaters of operations. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).</p>											
<p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none">2014 Awarded design and fabrication effort for Petroleum Quality Analysis System (PQAS).2037 Awarded incrementally-funded contract for Rapidly Installed Fuel Transfer Systems (RIFTS).247 Program management and general support. <p>Total 4298</p>											
<p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none">1880 Continue development and test/evaluation of PQAS EMD prototypes (qty 2).342 Establish system performance requirements and develop purchase description for Petroleum Quality Surveillance Lab (PQSL).1686 Award second increment for RIFTS. Initiate test and evaluation.100 Program management and general support.1590 Continue 1500 Tactical Water Purification System (TWPS) EMD effort.200 Conduct investigation of NBC contamination removal technology for water purification systems.											

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001**

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

L41**FY 2001 Planned Program (Continued)**

- 300 Evaluate Pre-Planned Product Improvements (P3I) for water purification systems.
- 182 Small Business Innovative Research/Small Business Technology Transfer Programs

Total 6280

FY 2002 Planned Program

- 500 Evaluate commercial water treatment components for Pre-Planned Product Improvements (P3I) for water purification systems.
- 225 Prepare test reports for systems evaluated under water purification P3I program.
- 1100 Complete PQAS testing and conduct MS C IPR.
- 300 Develop PQSL program management documents for Milestone decision and prepare RFP.
- 3409 Initiate EMD contract for RIFTs.
- 300 Program management and support.
- 832 Develop LHS Modular Fuel Farm prototype.
- 400 Complete 1500 TWPS EMD effort.
- 300 Prepare program documentation for 3K Water Purification Unit (WPU).

Total 7366

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

L41

<u>B. Other Program Funding Summary</u>	<u>FY 2000</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, 0603804.DK41, POL Distribution Equipment Advanced Development	1070	2175	2859	0	0	0	0	0	0	0
OPA 3, MB6400, Quality Surveillance Equipment	1696	7056	7694	0	0	0	0	0	0	0
OPA 3, R05600, Water Purification Systems	9351	40354	39289	0	0	0	0	0	0	0

C. Acquisition Strategy: Development of and transition to competitive procurement for all items under this project.

<u>D. Schedule Profile</u>	<u>FY 2000</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>
Awarded contract for the RIFTs.		2Q		0	0	0	0	0
Evaluate P3I for water purification systems		1-4Q	1-4Q	0	0	0	0	0
Complete 1500 TWPS EMD contract, PQT, and conduct special LRIP IPR.	1-4Q	1-4Q	1-4Q	0	0	0	0	0
Complete DT/OT of pre-production PQAS prototypes.			2Q	0	0	0	0	0
Conduct PQAS MS III IPR.			3Q	0	0	0	0	0
Award second increment for RIFTs. Test & Evaluate.		4Q		0	0	0	0	0
Complete technical evaluation of FTIR spectroscopy as screening tool for PQAS.				0	0	0	0	0
EMD contract for RIFTs.			3-4Q	0	0	0	0	0
Conduct PQSL MS III IPR.				0	0	0	0	0
Evaluate technologies for lubricant quality monitor.				0	0	0	0	0
Evaluate technologies for petroleum quality analyzers.				0	0	0	0	0
Perform market survey of commercial water quality monitoring systems.				0	0	0	0	0
Evaluate commercial water quality monitoring systems.				0	0	0	0	0
Conduct P3I for petroleum storage and distribution systems.		1-4Q	1-4Q	0	0	0	0	0
Continue Development of LMFF				0	0	0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001	
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT L41
<u>D. Schedule Profile (continued)</u>	<u>FY 2000</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>
Test and Evaluate LMFF				0	0	0	0	0
Award 3K WPU EMD Contract				0	0	0	0	0
Develop Mil A/B IPR Package & EMD Contract for 3K WPU			1-4Q	0	0	0	0	0
Develop specification and RFP and award contract for TFAS				0	0	0	0	0
Develop LHS Modular Fuel Farm Prototypes (LMFF)			2-4Q	0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
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 . PQAS	In-House	TARDEC, Warren, MI	155	390	2Q	215	2Q	0	0	0	0	0
b . PQAS	MIPR	Rock Island Arsenal, Rock Island, IL	1684	790	2Q	410	1Q	0	0	0	0	0
c . PQAS	FFP	TBD	0	187	3Q	75	1Q	0	0	0	0	0
d . PQSL	CFP	Various	0	215	1Q	0		0	0	0	0	0
e . PQSL	In-House	TARDEC, Warren, MI	0	102	1Q	50	1Q	0	0	0	0	0
f . RIFTS	In-House	TARDEC, Warren, MI	150	131	1Q	200	1Q	0	0	0	0	0
g . RIFTS	C-CPFF	Various	1887	1555	4Q	2509	2Q	0	0	0	0	0
h . 1500 TWPS	In-House	TARDEC, Warren, MI	0	335	2Q	0		0	0	0	0	0
i . 1500 TWPS hardware	C-CPFF	SFA, Inc, Frederick, MD	0	915	2Q	0		0	0	0	0	0
j . Lubricant Quality Monitor	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
k . Petroleum Quality Analyzer	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
l . Water Purification P31	In-House	TARDEC, Warren, MI	0	150	2Q	200	1Q	0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
I. Product Development (continued)	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
m . Water Purification P31	Purchase Orders	TBD	0	0		150	2Q	0	0	0	0	0
n . 3K WPU	In-House	TARDEC, Warren, MI	0	0		100	1Q	0	0	0	0	0
o . 3K WPU	C-CPFF	TBD	0	0		0		0	0	0	0	0
p . Improved Water Quality	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
q . Improved Water Quality	Purchase Orders	TBD	0	0		0		0	0	0	0	0
r . LHM Modular Fuel Farm	C-CPFF	TBD	0	0		750	2Q	0	0	0	0	0
s . LMFF	In-House	TARDEC, Warren, MI	0	0		82	1Q	0	0	0	0	0
Subtotal:			3876	4770		4741		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
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 . PQAS	In-House	TACOM, Warren, MI	0	190	2Q	55	2Q	0	0	0	0	0
b . PQSL	In-House	TACOM, Warren, MI	0	0		50	2Q	0	0	0	0	0
c . Lubricant Quality Monitor	In-House	TACOM, Warren, MI	0	0		0		0	0	0	0	0
d . Petroleum Quality Analyzer	In-House	TACOM, Warren, MI	0	0		0		0	0	0	0	0
e . Water Purification P31	In-House	TACOM, Warren, MI	0	0		50	1Q	0	0	0	0	0
f . 3K WPU	In-House	TACOM, Warren, MI	0	0		200	1Q	0	0	0	0	0
Subtotal:			0	190		355		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
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 . PQAS DT	MIPR	TECOM, Aberdeen, MD	175	323	2Q	0		0	0	0	0	0
b . PQAS	MIPR	APG, Aberdeen, MD	0	0		50	2Q	0	0	0	0	0
c . PQAS OT	MIPR	TEXCOM, Texas	0	0		195	1Q	0	0	0	0	0
d . RIFTS	MIPR	TECOM, Aberdeen, MD	0	0		700	2Q	0	0	0	0	0
e . 1500 GPH TWPS	MIPR	NFESC, Port Huaneme, CA	0	340	2Q	0		0	0	0	0	0
f . Lubricant Quality Monitor	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
g . Petroleum Quality Analyzer	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
h . Water Purification P31	In-House	TARDEC, Warren, MI	0	150	2Q	325	1Q	0	0	0	0	0
i . Water Purification P31	MIPR	Dugway PG, Dugway, MD	0	200	3Q	0		0	0	0	0	0
j . 1500 TWPS	In-House	TEXCOM, Texas	0	0		400	2Q	0	0	0	0	0
k . LMFF	MIPR	ATEC, Alexandria, VA	0	0		0		0	0	0	0	0
Subtotal:			175	1013		1670		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)										June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L41		
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 . PQAS	In-House	TARDEC, Warren, MI	0	0		100	1Q	0	0	0	0	0
b . PQSL	In-House	TARDEC, Warren, MI	0	25	2Q	200	1Q	0	0	0	0	0
c . Lubricant Quality Monitor	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
d . Petroleum Quality Analyzer	In-House	TARDEC, Warren, MI	0	0		0		0	0	0	0	0
e . Program Management Support	In-House	TACOM, Warren, MI	247	282	1Q	300	1Q	0	0	0	0	0
Subtotal:			247	307		600		0		0	0	0
Remarks: Not Applicable												
Project Total Cost:			4298	6280		7366		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev				PROJECT L43			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L43	ENGINEER SUPPORT EQUIPMENT - ED	52	573	855	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification:Project develops Engineer Support Equipment (ESE) such as small boats, diving equipment, well drilling modules, fire trucks, tool outfits, large power generator plants, electrical distribution systems, and floodlights which are used for field operations in support of the Objective Force.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 20 Developed performance specification for outboard motors. 19 Conducted market investigation for outboard motors. 13 Conducted market investigation testing for outboard motors. <p>Total 52</p> <p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> 93 Conduct market investigation, develop performance specifications and conduct preproduction award effort for diving equipment. 319 Support the development of large generator sets and associated equipment. 144 Conduct market investigation, develop performance specifications and conduct preproduction award effort for well drilling module. 17 Small Business Innovation Research/Small Business technology transfer (SBIR/STTR) Programs <p>Total 573</p>											

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

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604804A - Logistics and Engineer Equipment
Engineering Dev**

PROJECT

L43

FY 2002 Planned Program

- 100 Conduct market investigation, develop performance specifications and conduct preproduction award effort for diving equipment.
 - 755 Award EMD contract for well drilling module
- Total 855

B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA 3, MA8050, Items Less than \$5.0M (CSS-Equipment)	4328	1892	4001	0	0	0	0	0	0	0
OPA 3, MA8800, Items Less than \$5.0M (Generator Equipment)	0	0	652	0	0	0	0	0	0	0
OPA 3, M56400, Generator Set, DE, 750KW 60HZ	0	0	7732	0	0	0	0	0	0	0

C. Acquisition Strategy: EMD and transition to production.

D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Conduct market investigation for well drilling module		1Q		0	0	0	0	0
Award EMD contract for well drilling module			1Q	0	0	0	0	0
Conduct testing for well drilling module				0	0	0	0	0
Conduct market investigation and testing for diving equipment		1Q		0	0	0	0	0
Conduct market investigation and testing for outboard motors	4Q			0	0	0	0	0
Develop performance specifications for 100/200KW Electric Power System		2Q		0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L43		
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 . Outboard motors product development	IN- HOUSE	TACOM, Warren, MI	52	0		0		0	0	0	0	0
b . Diving equipment product development	IN-HOUSE	TACOM, Warren, MI	0	93	1Q	100	1Q	0	0	0	0	0
c . Generator production development	IN-HOUSE	CECOM, Ft Belvoir, VA	0	336	2Q	0		0	0	0	0	0
d . Well drilling module product development	MIPR	TACOM, Warren, MI	0	144	1Q	0		0	0	0	0	0
e . Well drilling EMD contract	C-CPFF	TACOM, Warren, MI	0	0		755	1Q	0	0	0	0	0
Subtotal:			52	573		855		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L43		
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
			0	0		0		0		0	0	0
Subtotal:												
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 . Well drilling module testing	C-CPFF	TACOM, Warren, MI	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604804A - Logistics and Engineer Equipment Engineering Dev					PROJECT L43		
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
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			52	573		855		0		0	0	0