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

**June 2001** 

BUDGET ACTIVITY

PE NUMBER AND TITLE

4 - DEM/VAL 0603804A - Logistics and Engineer Equipment Adv 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	7787	6260	7456	0	0	0	0	0	0	0
526	MARINE ORIEN LOG EQ AD	3641	2280	2013	0	0	0	0	0	0	0
G10	ADV TAC PWR SOURCES AD	192	216	470	0	0	0	0	0	0	0
G11	ADV ELEC ENERGY CON AD	964	719	1004	0	0	0	0	0	0	0
G14	MATERIALS HANDLING EQUIPMENT - AD	102	187	200	0	0	0	0	0	0	0
K39	ENVIRONMENTAL EQUIPMENT - AD	1818	683	910	0	0	0	0	0	0	0
K41	WATER AND PETROLEUM DISTRIBUTION - AD	1070	2175	2859	0	0	0	0	0	0	0

### A. Mission Description and Budget Item Justification:

<u>PLEASE NOTE:</u> 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.

This program supports demonstration and validation of new and improved technologies for combat support and combat service support equipment essential to sustaining combat operations. Advancements in airdrop, rigid wall shelters, watercraft, bridging, electric power generators and batteries, potable water, environmental control and petroleum equipment are necessary to improve safety and increase the tactical mobility, operational capability, lethality and survivability on the digital battlefield of the first to fight; and to provide for greater sustainment of all combat forces while reducing the logistics support burden. These syetms support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

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

**June 2001** 

BUDGET ACTIVITY

4 - DEM/VAL

PE NUMBER AND TITLE

0603804A - Logistics and Engineer Equipment Adv Dev

B. Program Change Summary	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	8428	6317	6503	0
Appropriated Value	8514	6317	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	-44	0	
b. SBIR / STTR	-223	0	0	
c. Omnibus or Other Above Threshold Reductions	-35	0		
d. Below Threshold Reprogramming	-418	0	0	
e. Rescissions	-51	-13	0	
Adjustments to Budget Years Since FY2001 PB	0	0	953	
Current Budget Submit (FY 2002/2003 PB )	7787	6260	7456	0

### Explanation of changes:

 $FY02:\ Increase\ supports\ Theater\ Logistics\ Vessel\ (TLV)\ development.$ 

FY03: Increase supports numerous petroleum and water systems associated with the Army Transformation.

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Jı	ıne 2001		
BUDGET ACTIVITY 4 - DEM/VAL			E NUMBER . <b>0603804A</b> <b>Dev</b>			gineer Eq	<b>Juipment</b>	Adv	PROJECT <b>526</b>	
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
526 MARINE ORIEN LOG EQ AD	3641	2280	2013	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: Provides funds for the demonstration and validation of equipment in support of the Army's Logistics-Over-The-Shore (LOTS), In-theatre Port Control, and Intercoastal/Riverine Logistics missions. These efforts will significantly improve operational capability and flexibility. Project funds serve to support development of the Rapidly Installed Breakwater (RIB). This project will assist the Army to conduct LOTS exercises under adverse sea state conditions. Together, these efforts will extend capabilities of the joint Army/Navy LOTS program, and allow the Army to proceed with deployment of forces under less than ideal sea and weather conditions. The Theater Support Vessel (TSV) will operate at much greater speeds than current Army Watercraft, thus greatly improving the speed of Army combat mobilization in theatre. Efforts in the outyears will include a Watercraft Operations and Support (O&S) cost reduction study to identify specific cost-effective efforts which can be undertaken to improve the Army's O&S posture within the watercraft fleet. The study will examine areas such as Fuel Management, Lubrication, Paints, Maintenance Frequencies & Procedures, etc. Additionally, outyear efforts will concentrate on hardware modifications to comply with Safety of Life At Sea(SOLAS) requirements. These systems support the Legacy-to-objective transition path of the Transformation Campaign Plan (TCP).

### FY 2000 Accomplishments

- Real Time Automatic Cargo Container Tracking & Control System (RTACTCS) development & prototyping.
- Continuation of Rapidly Installed Breakwater (RIB) design and initiate delivery system conceptualization.
- Initation of Theatre Support Vessel (TSV) programmatic documentation and conduct cost and sizing study.
- 4 Harbormaster Command and Control Center (HCCC)- ORD developed, coordinated and approved.

Total 3641

DEM/VA	ITY <b>L</b>	PE NUMBER AND TITLE 0603804A - Logistics and Engineer Equipment Adv Dev	PROJECT <b>526</b>
′ 2001 Plann	ed Program		
600	Continuation of Rapidly Installed Breakwater (RIB) design ar	nd delivery system.	
1202	Obtain Theatre Support Vessel (TSV) Milestone A decision, of	conduct market survey, and initiate RFP.	
410	Landing Craft Utility, Parameters and Performance Character	istics for ESP/Upgrade	
68	Small Business Innovative Research/Small Business Technology	ogy Transfer Programs	
tal 2280			

ARMY RDT&E BUDGET	ITEM J	JUSTII	FICAT	ION (I	<b>R-2A</b> E	xhibit)		June 2	2001	
BUDGET ACTIVITY 4 - DEM/VAL				BER AND T 14A - Log	ITLE gistics and	d Engine	er Equip	ment Adv	PROJE V <b>526</b>	ECT
B. Other Program Funding Summary	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	<u>Total Cost</u>
RDTE, 0604804A, D461, Marine Oriented Logistics, Engineering	3845	1434	6234	0	0	0	C	0	0	0

25437

C. Acquisition Strategy: RIB: Engineering work on the RIB structure is being accomplished by the Corps of Engineers Engineering Research Development Center (ERDC) (current developers). TACOM is working on the development of the delivery system. Programmatic documentation for the RIB is being undertaken via competitive contract. The current Watercraft Communications, Electronics, & Navigation (CEN) Equipment contractor is Conley & Associates. Navy in-house and contract expertise would be available as well. TSV and LCU efforts will be conducted primarily with the Naval Surface Warfare Center (NSWC). NSWC can call on both in-house and contract resources (based on workload and expertise) to cover Army requirements.

D. Schedule Profile	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Conceptual Development of the RIBS.	2-3Q	2-3Q		0	0	0	0	0
Theatre Support Vessel Concept Development	2-3Q	2-3Q	2-3Q	0	0	0	0	0
LCU Parameters and Performance Characteristics		2-4Q		0	0	0	0	0
Operations & Support Cost Reduction Study				0	0	0	0	0
128' Large Tug Recapitalization				0	0	0	0	0
New Large Tug				0	0	0	0	0
Uniform National Discharge Standards (UNDS)/Safety				0	0	0	0	0
Equipment								

6669

22514

17069

OPA 3, R97500, Causeway Systems

OPA 3, M11200, Logistic Support Vessel (LSV)

OPA 3, M11203, Theatre Support Vessel(TSV)

0

0

0

0

0

0

	ARM	IY RDT&E CC	ST AN	ALY	SIS(R-3	)			June	e <b>2001</b>		
BUDGET ACTIVITY 4 - DEM/VAL					number an 6 <b>03804A - I</b>		and Engin	ieer Equi	ipment A	dv Dev	PROJEC <b>526</b>	Т
I Due do et Develoument	Control	Danfarraina Astinita P	Total	EV 200	1 FY 2001	FY 2002	FY 2002	FY 2003	FY 2003	Cont To	Tatal	T
I. Product Development	Contract	Performing Activity &	PVs Cost	FY 2001		F Y 2002 Cost	FY 2002	F Y 2003		Cost To	Total	Target

Waterways Experiment			Date		Award Date	Cost	Award Date	•	Cost	Value of Contract
Station (WES)	445	0		0		0	0	0	0	0
Navy (NSWC) Suffolk, VA	205	1075	2-3Q	1424	2-3Q	0	0	0	0	0
TARDEC, Warren, MI	300	0		0		0	0	0	0	0
Corps of Engineers (ERDC) Vicksburg, MS	120	325	2Q	0		0	0	0	0	0
CECOM (Reprogrammed by DA)	1954	0		0		0	0	0	0	0
	3024	1400		1424		0		0	0	0
	(toprogrammed by 211)									

Method & Location   PYs Cost   Cost   Date	Y 2001 FY 2002 Award Date 1-2Q 19 2-3Q 25 0 0	02 FY 2002 Award Date 19 2-3Q 25 2-3Q 0 0	FY 2003	FY 2003 Award Date 0 0	Cost To Complete  0  0  0  0	Total Cost  0  0  0  0	Target Value of Contract  0  0  0  0
Method & Location   PYs Cost   Cost   Date   Cost   Date   Cost   Date   Cost   Date   Cost   Contract   Date   Cost	Award Date  1-2Q 19  2-3Q 25  0  0	Award Date           19         2-3Q           25         2-3Q           0         0           0         0		Award Date 0 0 0	Complete 0 0 0 0 0	0 0 0 0	Value of Contract
a . TACOM CBU MIPR Warren, MI 14 5 1-2Q 19 2-3Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2-3Q 25 0 0 0 0	25 2-3Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0	0 0	0 0 0	0 0 0
c . TARDEC MIPR Warren, MI 170 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0 0	0 0 0	0	0	0 0	0 0
d. PM Force Projection MIPR Warren, MI 192 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0 0	0	0	0	0
e . Safety Office	0	0	0	-	0	0	0
Miprocessisted   Mipr			0	0	Ĩ		
Subtotal: Subtot	44	44	0		0	0	
III. Test and Evaluation  Contract Method & Location Type  ATC, MD  101  320  PYS Cost  101  320  Cost  Award Date  Cost  O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						U	0
Method & Location PYs Cost Cost Award Date Cost Award Date a . DTC/ATC MIPR ATC, MD 101 320 2-3Q 200 2-3Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
a . DTC/ATC MIPR ATC, MD 101 320 2-3Q 200 2-3Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Award Cost	ost Award		Award	Complete		Value of
	2-3Q 200	00 2-3Q	0	0	0	0	
	200	00	0		0	0	0
		2-3Q 2	2-3Q 200 2-3Q	2-3Q 200 2-3Q 0	2-3Q 200 2-3Q 0 0	2-3Q 200 2-3Q 0 0 0	2-3Q 200 2-3Q 0 0 0 0

	AINIVI	IY RDT&E CC	OI AI		` /	,			June	e <b>2</b> 001		
BUDGET ACTIVITY 4 - DEM/VAL					umber ani <b>3804A - I</b>	D TITLE L <b>ogistics a</b>	and Engin	eer Equi	pment A	dv Dev	PROJEC <b>526</b>	T
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	Targe Value o Contrac
a . PM Army Watercraft Systems /TARDEC	N/A	TACOM, Warren, MI	0	510	2-3Q	345	2-3Q	0	0	0	0	(
b. SBIR/STTR			118	0		0		0	0	0	0	(
Subtotal:			118	510		345		0		0	0	(
Project Total Cost:			3641	2280		2013		0		0	0	(

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Jı	ıne 2001		
BUDGET ACTIVITY 4 - DEM/VAL		(	e number . 0 <b>603804A</b> Dev			gineer Eq	<b>luipment</b>	Adv	PROJECT <b>G11</b>	
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
G11 ADV ELEC ENERGY CON AD	964	719	1004	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project provides concept and technology development for electrical energy devices to improve soldier mobility, readiness and survivability. This project supports initiatives which will lead to tactical electric power procurements in diesel powered generators and power units/power plants rated at 3-920 kilowatts (kW) with higher efficiency, lighter weight, easier maintainability and higher reliability. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

### FY 2000 Accomplishments

- Completed test and evaluation of commercial components/subsystems for 5-60kW generator sets.
- 528 Initiated system designs for fabrication of proof of concept systems for 5-60kW generator sets.
- Initiated fabrication of prototypes per system designs. (Quantity 4)

Total 964

### FY 2001 Planned Program

- 176 Complete prototypes. (Quantity 4)
- 524 Begin test and evaluation of prototype systems.
- Small Business Innovation Research/Small Business Technology Transfer Program

Total 719

### ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) BUDGET ACTIVITY 4 - DEM/VAL PE NUMBER AND TITLE 0603804A - Logistics and Engineer Equipment Adv Dev PROJECT G11

### FY 2002 Planned Program

1004 Complete testing of prototype systems.

Total 1004

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
RDT&E:PE0604804A, D194 Engine Driven Generators	7858	5077	3398	0	0	0	0	0	0	0
OPA 3, MA9800 Generators and Associated Equipment	77834	88047	59768	0	0	0	0	0	0	0

C. Acquisition Strategy: Complete advanced development and transition to engineering development and production.

D. Schedule Profile	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Design and initiate fabrication of prototypes	1Q			0	0	0	0	0
Complete component and subsystem testing	4Q			0	0	0	0	0
Complete system prototypes		3Q		0	0	0	0	0
Begin test & evaluation of prototypes		3Q		0	0	0	0	0
Complete testing system prototypes			4Q	0	0	0	0	0
Initiate Advanced Combustion Enhancement Program for 2-5kW				0	0	0	0	0
Procure commercial component and fabricate sub-assemblies from ACE program				0	0	0	0	0
Test ACE on military systems (2-5kW)				0	0	0	0	0
Transition ACE to Man Portable Power (MPP) program				0	0	0	0	0
Initiate Large Advanced Mobile Power Sources Program (LAMPS)				0	0	0	0	0

ARMY RDT&E BUDGET IT	TEM JUSTIF	ICATI	ON (R	-2A Ex	khibit)		June 2	001	
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBI <b>060380</b> 4 <b>Dev</b>			Engineei	r Equipn	nent Adv	PROJ <b>G11</b>	
D. Schedule Profile (continued)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	
Initiate testing of LAMPS components				0	0	0	0	0	J

I. Product Development Contract								pment A	av Bev	G11	
Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cos		FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Generator design and fabricate components	CECOM-Belvoir	385	(		24	1Q	0	0	0	0	C
b . Generator prototypes MIPR	CECOM-Belvoir	35	106	5 1Q	200	1Q	0	0	0	0	C
c . ACE Components TBD	TBD	0	(	)	0		0	0	0	0	C
Subtotal:		420	100	5	224		0		0	0	C
II. Support Cost  Contract Method of Type	Performing Activity & Location	Total PYs Cost	FY 200 Cos	t Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Targe Value of Contract
a . Generator components In-house	CECOM In-house	250	70	1Q	0		0	0	0	0	C
b . Prototypes In-house	CECOM In-house	26	(	)	80	1Q	0	0	0	0	C
c . ACE Components MIPR	CECOM-Belvoir	0	(	)	0		0	0	0	0	C
Subtotal:		276	70	)	80		0		0	0	C

	AKN	IY RDT&E CC	OST AN			,			Jun	e 2001		
BUDGET ACTIVITY 4 - DEM/VAL				PE N <b>06(</b>	umber ani <b>)3804A - I</b>	D TITLE L <b>ogistics a</b>	and Engin	eer Equ	ipment A	dv Dev	PROJEC <b>G11</b>	
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	Targe Value o Contrac
a . Component/Subsystem	MIPR	CECOM-Belvoir	482	0		0		0	0	0	0	(
b . Prototypes	MIPR	CECOM-Belvoir	0	424	1Q	600	1Q	0	0	0	0	C
c . ACE Components	TBD	TBD	0	0		0		0	0	0	0	0
Subtotal:			482	424		600		0		0	0	0
IV. Management Services	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2001 Cost		FY 2002 Cost	FY 2002 Award	FY 2003 Cost	FY 2003 Award	Cost To Complete	Total Cost	Value of
IV. Management Services  a . Generator components					Award Date							Value of Contract
	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award	Cost	Award Date	Complete 0	Cost	Value of Contract
a . Generator components	Method & Type In-house	CECOM In-house	PYs Cost	Cost 0	Award Date	Cost 0	Award Date	Cost 0	Award Date 0	Complete 0	Cost 0	Value of Contract
a . Generator components b . Prototypes	Method & Type In-house In-house	CECOM In-house  CECOM In-house	PYs Cost 150 0	Cost 0 100	Award Date	0 100	Award Date	Cost 0 0	Award Date 0	Complete 0	Cost 0	Value of Contract
a . Generator components b . Prototypes c . ACE Components	Method & Type In-house In-house	CECOM In-house  CECOM In-house	PYs Cost  150  0  0	Cost 0 100 0	Award Date	Cost 0 100 0	Award Date	Cost 0 0 0	Award Date 0 0	Complete 0 0 0	0 0 0	Value of Contract
a . Generator components b . Prototypes c . ACE Components d . SBIR/STTR	Method & Type In-house In-house	CECOM In-house  CECOM In-house	PYs Cost  150  0  0  0	Cost  0  100  0  19	Award Date	Cost 0 100 0 0	Award Date	Cost 0 0 0 0	Award Date 0 0	Complete 0 0 0 0	0 0 0	Target Value of Contract 0 0 0

	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Jı	ıne 2001		
BUDGET 4 - DEN	ACTIVITY M/VAL		(	E NUMBER . <b>)603804A</b> <b>Dev</b>			gineer Eq	<b>luipment</b>	Adv	PROJECT <b>K41</b>	
	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
K41	WATER AND PETROLEUM DISTRIBUTION - AD	1070	2175	2859	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: Develop and demonstrate the potential of prototype equipment and technologies to satisfy petroleum and water distribution system requirements. These R&D efforts support the development and enhancement of rapidly deployed Petroleum and Water equipment. This equipment enables the Army to achieve its transformation vision by providing it with the means to be highly mobile and self sustaining in very hostile theatres of operations. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

### FY 2000 Accomplishments

- 800 Awarded contract for Tactical Fuel Automated System (TFAS).
- 100 Conducted fabric tank material testing.
- Prepared Petroleum Quality Surveillance Lab (PQSL) lifecycle cost estimate and evaluated system concepts.
- Program management and general support.

Total 1070

### FY 2001 Planned Program

- 780 Complete Lightweight Water Purifier (LWP) Testing.
- 230 Prepare LWP IPR package and production contract RFP.
- 350 Award LWP final contract increment.
- 100 Prepare RO Element Life Extension Report.
- 152 Perform reverse osmosis cyanide removal evaluation.
- Evaluate pre-planned product improvements (P3I) for petroleum storage and distribution systems.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) BUDGET ACTIVITY 4 - DEM/VAL PENUMBER AND TITLE 0603804A - Logistics and Engineer Equipment Adv Nev FY 2001 Planned Program (Continued) 63 Small Business Innovative Research/Small Business Technology Transfer Programs. Total 2175

### FY 2002 Planned Program

_	E 1 E	Develop technical requirements and initiate design of advanced petroleum test kits.	
•	747	Develop technical requirements and initiate design of advanced petroletim test kits	

- 400 Conduct LWP Testing.
- Evaluate commercially available water purification components.
- Conduct market survey for the trailer-mounted tank and pump unit (TMTPU).
- 100 Program management support.
- Continue evaluation of P3I for petroleum storage and distribution systems.

Total 2859

ARMY RDT&E BUDGET	ITEM J	JUSTII	FICAT	ION (l	R-2A E	xhibit)		June 2	2001	
BUDGET ACTIVITY 4 - DEM/VAL		•	BER AND T 14A - Log		d Engine	er Equip	PROJECT <b>Equipment Adv</b> K41			
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
RDTE, 0604804.L41, Fuels and Equipment Engineering Development	4392	6280	7366	C	) (	0	(	0	0	0
OPA 3, R05600, Water Purification Systems	9351					0	(	0	0	0
OPA 3 MB6400 Quality Surveillance Equipment	1696	7056	7694	(	) (	0	i (	0	0	

C. Acquisition Strategy: Develop engineering prototypes or select Non-Developmental Item based on market surveys and proposals from industry.

D. Schedule Profile	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
D. Schedule Trome	11 2000	1 1 2001	11 2002	11 2005	11 2001	112003	11 2000	112007
Evaluate P3I's to Petro S&D Systems.		2-4Q		0	0	0	0	0
LWP PQT Testing.		2-4Q		0	0	0	0	0
Conduct LWP MS C LRIP Decision.			1Q	0	0	0	0	0
RO Element & Life Extension Report.		4Q		0	0	0	0	0
Cyanide removal testing.		3-4Q		0	0	0	0	0
Develop Advanced Petroleum Test Kit			1-4Q	0	0	0	0	0
Complete LWP IOT&E.			3Q	0	0	0	0	0
Evaluate Water Purification Components.			1-4Q	0	0	0	0	0
Market Survey for TMTPU.			1Q	0	0	0	0	0
Award contract for TMTPU.			3Q	0	0	0	0	0
Continue evaluation of P3I for Petro S&D Systems.			1-4Q	0	0	0	0	0
Conduct testing of AAN water purifiers.				0	0	0	0	0
Complete analysis of alternatives of petroleum storage and				0	0	0	0	0
distribution concepts.								
Prepare initial program documentation for next generation water				0	0	0	0	0
analysis equipment								
Complete test and evaluation of TMTPU.				0	0	0	0	0

## ARMY RDT&E COST ANALYSIS(R-3) BUDGET ACTIVITY 4 - DEM/VAL PE NUMBER AND TITLE 0603804A - Logistics and Engineer Equipment Adv Dev Note: Total FY 2001 FY 2002 FY 2002 FY 2003 FY 2003 Cost To Total Target Note: Total Target

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		Total Cost	Target Value of Contract
a. PQSL	In-House	TARDEC	69	0		0		0	0	0	0	0
b. TFAS	CPFF	SAIC & Lantern, VA	800	0		0		0	0	0	0	0
c . LWP	CPFF	MECO, LA	0	350	3Q	0		0	0	0	0	0
d. LWP	In-House	TARDEC	0	100	1Q	0		0	0	0	0	0
e . Water Treatment Components	CPFF	TBD	0	0		150	2Q	0	0	0	0	0
f . Advanced Petroleum Test Kit	In-House	TARDEC	0	0		195	1Q	0	0	0	0	0
g . Advanced Petroleum Test Kit	CPFF	TBD	0	0		300	2Q	0	0	0	0	0
h . TMTPU	In-House	TARDEC	0	0		100	1Q	0	0	0	0	0
i . TMTPU	CPFF	TBD	0	0		600	2Q	0	0	0	0	0
j . Petroleum Storage & Distribution (P3I)	CPFF	TBD	0	328	2Q	350	2Q	0	0	0	0	0
k . Water Analysis Equipment	In-House	TARDEC	0	0		0		0	0	0	0	0

BUDGET ACTIVITY 4 - DEM/VAL	AKIVI	IY RDT&E CO	)51 AN	PE N	JMBER ANI	O TITLE	and Engin	eer Equi	June	PROJECT <b>K41</b>		
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	Targe Value o Contrac
Subtotal:			869	778		1695		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	Targe Value o Contrac
a. LWP	In-House	TACOM	0	230	2Q	0		0	0	0	0	(
b . Water Purification Components P3I	In-House	TARDEC	0	100	2Q	100	1Q	0	0	0	0	(
c . AAN Water Purification	In-House	TARDEC	0	0		0		0	0	0	0	(
d . Advanced petroleum test kit	In-House	TACOM	0	0		25	1Q	0	0	0	0	(
e . Petro S&D P3I	In-House	TARDEC	0	172	1Q	150	1Q	0	0	0	0	(
f . Water Analysis Equipment	In-House	TARDEC	0	0		0		0	0	0	0	(
Subtotal:			0	502		275		0		0	0	(

### **ARMY RDT&E COST ANALYSIS(R-3) June 2001** BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 0603804A - Logistics and Engineer Equipment Adv Dev 4 - DEM/VAL K41 FY 2001 FY 2001 FY 2002 FY 2002 FY 2003 FY 2003 Cost To III. Test and Evaluation Contract Performing Activity & Total Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Type Date Date Date ATEC a. TFAS MIPR 0 0 0 0 77 0 b . Fabric tank materials MIPR ARL 0 0 483 0 0 c. LWP **MIPR** ATEC, MD 0 2Q 0 d. LWP In-House TARDEC 0 143 2Q 0 0 0 e. LWP MIPR **NFESC** 0 32 20 0 0 0 f. AAN Water Purifiers 0 0 0 0 In-House TARDEC g. Water Treatment In-House TARDEC 152 20 365 10 0 components (P3I) h . Advanced petroleum test **MIPR** ATEC 0 0 0 0 0 i. TMTPU **MIPR** ATEC 0 0 0 0 0 0 0 i. Petro S&D P3I **MIPR** ATEC 0 0 0 0 0 k. LWP **MIPR** TEXCOM 0 400 2Q 0 0 810 765 0 0 Subtotal:

	ARM	IY RDT&E CO	JST AN		` ′				June	e <b>2001</b>		
BUDGET ACTIVITY 4 - DEM/VAL					jmber ani <b>3804A - I</b>	o TITLE Logistics a	nd Engin	eer Equi	pment A	dv Dev	PROJEC <b>K41</b>	
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	Targe Value o Contrac
a . Fabric tank materials	In-House	TACOM	23	0	Date	0	Date	0	0	0	0	Contrac (
b . Advanced Petroleum Test Kit	InHouse	TACOM	0	0		25	1Q	0	0	0	0	(
c . Program Management Support	InHouse	TACOM	108	85	2Q	99	1Q	0	0	0	0	(
d . AAN Water Purifiers	C-CPFF	TBD	0	0		0		0	0	0	0	(
e . Water Analysis Equipment	In-House	TARDEC	0	0		0		0	0	0	0	(
Subtotal:			131	85		124		0		0	0	(
Project Total Cost:			1077	2175		2859		0		0	0	(