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DEPARTMENT OF THE ARMY
Procurement Programs



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Committee Staff Procurement Backup Book
FY 1996 / 1997 BIENNIAL BUDGET ESTIMATE
OTHER PROCUREMENT, ARMY
ACTIVITY 3, OTHER SUPPORT EQUIPMENT
APPROPRIATION

Date February 1995

Reports Control Symbol
DD-COMP (AR) 1092

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OTHER PROCUREMENT, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of vehicles, including tactical, support and nontracked combat vehicles; communications and electronics equipment; other support equipment; initial spare parts, ordnance, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,256,601,000, to remain available for obligation until September 30, 1998.

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OTHER PROCUREMENT, ARMY

SECTION 3

Comparison of Program Requirements and Financing

Comparison of FY1995 program requirements as reflected in the FY1995 President's Budget with FY1995 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1995 financing as reflected in the FY1995 President's Budget with FY1995 financing as shown in the FY1996 President's Budget.

Comparison of FY1994 program requirements as reflected in the FY1995 President's Budget with FY1994 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1994 financing as reflected in the FY1995 President's Budget with FY1994 financing as shown in the FY1996 President's Budget.

**COMPARISON OF FY 1995 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY 1995 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation	FY 1995 Requirements Per President's Budget	FY 1995 Requirements Per President's Budget	FY 1996 Requirements Per President's Budget	Increase or (Decrease)
Other Procurement, Army				
Activity 1 - Tactical and Support Vehicles	559,579	555,669	555,669	(3,910)
Activity 2 - Communications and Electronics Equipment	1,554,699	1,584,270	1,584,270	29,571
Activity 3 - Other Support Equipment	<u>575,955</u>	<u>528,890</u>	<u>528,890</u>	(47,065)
	2,690,233	2,668,829	2,668,829	(21,404)

EXPLANATION BY ACTIVITY

- Activity 1 - Tactical And Support Vehicles - the net decrease (\$-3,910) resulted from Congressionally approved and below threshold reprogramming.
- Activity 2 - Communications and Electronics Equipment - the net increase (\$+29,571) resulted from Congressionally approved and below threshold reprogramming.
- Activity 3 - Other Support Equipment - the net decrease (\$-47,065) resulted from Congressionally approved and below threshold reprogramming.

**COMPARISON OF FY 1995 FINANCING
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH FY 1995 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
(In Thousands of Dollars)**

Appropriation	FY 1995 Financing Per FY 1995 President's Budget	FY 1995 Financing Per FY 1996 President's Budget
Other Procurement, Army	2,866,833	2,875,029
Program Requirements (Total)	2,690,233	2,668,829
Program Requirements (Service Account)	176,600	206,200
Program Requirements (Reimbursable)		
Less:		
Anticipated Reimbursements	(176,600)	(206,200)
Unobligated balance available to finance new budget plans		(5,100)
Unobligated balance transferred to other accounts		5,100
BUDGET AUTHORITY		
Appropriation	2,690,233	2,668,829

**COMPARISON OF FY 1994 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY1994 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement	FY 1994 Requirements Per President's Budget	FY 1994 Requirements Per President's Budget	Increase or Decrease)
Activity 1 - Tactical and Support Vehicles	743,588	751,885	8,297
Activity 2 - Communications and Electronics Equipment	1,701,354	1,710,414	9,060
Activity 3 - Other Support Equipment	<u>443,624</u>	<u>433,156</u>	<u>(10,468)</u>
	2,888,566	2,895,455	6,889

EXPLANATION BY ACTIVITY

Activity 1 - Tactical and Support Vehicles - The net increase (\$+8,297) resulted from Congressionally approved and below threshold reprogramming.

Activity 2 - Communications and Electronics Equipment - The net increase (\$+9,060) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - The net decrease (-\$10,468) resulted from Congressionally approved threshold reprogramming.

**COMPARISON OF FY 1994 FINANCING
AS REFLECTED IN THE FY1995 PRESIDENT'S BUDGET
WITH THE FY 1994 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation	FY 1994 Financing Per FY 1995 President's Budget	FY 1994 Financing Per FY 1996 President's Budget
Other Procurement, Army		
Program Requirements (Total)	3,191,166	2,983,409
Program Requirements (Service Account)	2,888,566	2,895,455
Program Requirements (Reimbursable)	302,600	87,954
Less:		
Anticipated Reimbursements	(302,600)	(87,954)
Add:		
Unobligated balance available to finance new budget plans		(4,000)
Unobligated balances transferred to other accounts		(400)
Reprogramming From/To Prior Year Budget Plans		(6,683)
Unobligated Balances available to finance subsequent year budget plans		5,100
Unobligated balance expiring		7,083
BUDGET AUTHORITY		
Appropriation	2,888,566	2,984,509

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	CHEMICAL DEFENSIVE EQUIPMENT										
* 107	SIMP COLL PROT EQUIP M20 (M97400)	A		134	1527						
* 108	COLL PROT EQUIP, NBC TEMPER, TENT M28 (SX8001)	A			4366		10236				
* 109	MASK, PROTECTIVE, NBC M40/M42 (MA5000)	A			34495		24927				
* 110	REMOTE SENSING CHEMICAL AGENT ALARM XM21 (M96800)	B				156	18839				
* 111	IMPROVED CHEMICAL AGENT MONITOR (S02200)	A					1171				
* 112	AUTO CHEMICAL AGENT ALARM (ACADA), XM22 (M98800)	B				160	5455				
* 113	DECONTAMINATE APP PUR DR LT WT M17 (M67400)	A		515	7228						
114	GEN SMK MECH:MTRZD DUAL PURP XM56 (M99103)	A		12	4900	60	12410			70	13014
115	GENERATOR, SMOKE, MECH XM58 (M99107)	A						34	12698	34	12050
116	GEN SET, SMOKE, MECH: PUL JET, XM157 (M99104)	A						170	5214	118	3614
* 117	RADIATION MONITORING SYSTEM (OPA-3) (MB3001)				8291						
* 118	JOINT BIOLOGICAL DEFENSE PROGRAM (MA0800)						20416				
	SUB-ACTIVITY TOTAL				60807		93454		17912		28678
	BRIDGING EQUIPMENT										
119	RIBBON BRIDGE (MAB890)								3828		4472
	SUB-ACTIVITY TOTAL								3828		4472

* Transferred to Defense in FY96 and beyond

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)											
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
	ENGINEER (NON CONSTRUCTION) EQUIPMENT													
120	DISPENSER, MINE M139 (G39100)	A	953000	166	15933	179	16194		953	35	4273			
121	METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)	B								21	6755			
	SUB-ACTIVITY TOTAL				15933		16194		953				11028	
	COMBAT SERVICE SUPPORT EQUIPMENT													
122	AIR CONDITIONERS VARIOUS SIZE/ CAPACITY (MF9300)	A			6142		2995		3176		1520			
123	STANDARD INTEGRATED CMD POST SYSTEM (MX1010)	B			20250									
124	CHEM/BIO PROTECTIVE SHELTER (R12300)	B		29	6989									
125	SPACE HEATER (M19600)	A	4965			564	2812	290	1440	485	2410			
126	SOLDIER ENHANCEMENT (MA6800)				9200									
127	FORCE PROVIDER (M80200)	A	6137500			2	10664	2	12275	2	12127			
128	REFRIGERATION EQUIPMENT (MA5800)	A					2166		2562		5469			
129	ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)	A			2782		4438		2222		2796			
	SUB-ACTIVITY TOTAL				38374		30064		21675				24322	
	PETROLEUM EQUIPMENT													
130	LAB PETROLEUM MODULAR BASE (M68500)	A	2786000	1		1	2343	1	2786					
131	INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)	A			266		3652		1115		1106			
132	HEMTT AVIATION REFUELING SYSTEM (R21900)	A	26000			113	2965	21	546					

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)											
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
133	ITEMS LESS THAN \$2.0M (POL) (ML5330)	A			11050		8611		5537		9043			
	SUB-ACTIVITY TOTAL		11316		17571		9984		10149					
WATER EQUIPMENT														
134	FWD AREA WTR POINT SUP SYSTEM (M18100)	A	18189			155	2711	148	2692					
135	SMALL MOBILE WATER CHILLER (SMWC) (M15700)	A	10214			185	1893	387	3953					
136	ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)	A			4067		2995		2394		3089			
	SUB-ACTIVITY TOTAL		4067		7599		9039		3089					
MEDICAL EQUIPMENT														
137	COMBAT SUPPORT MEDICAL (MM1000)				20751		19209		14310		16484			
	SUB-ACTIVITY TOTAL		20751		19209		14310		16484					
MAINTENANCE EQUIPMENT														
138	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP) (M61500)	A	25042			118	2812	71	1778	66	1754			
139	TOOL OUTFIT HYDRAULIC REPAIR 3/4 TRL MTD (G39200)	A				23	2084							
140	ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)	A			7018		1144		1450		1393			
	SUB-ACTIVITY TOTAL		7018		6040		3228		3147					
CONSTRUCTION EQUIPMENT														
141	COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200)	A		109	13383									
142	ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	A	151382			31	5834	47	7115					

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
143	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)							18	9938	15	8014
144	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	A				7		7	1987	7	1987
145	ITEMS LESS THAN \$2.0M (CONST EQUIP) (M5350)	A		3954			3372		1981		397
	SUB-ACTIVITY TOTAL			17337			9206		21021		10398
	RAIL FLOAT CONTAINERIZATION EQUIPMENT										
146	PUSHER TUG, SMALL (M44500)	B				1	3576			2	7152
147	FLOATING CRANE, 100-250 TON (M32400)	B								1	14900
148	CAUSEWAY SYSTEMS (R97500)	A					993				
149	RAILWAY CAR, FLAT, 100 TON (M37000)	A	49441	187	15057	241	11534	238	11767	297	15042
150	ITEMS LESS THAN \$2.0M (FLOAT/ RAIL) (M5355)	A			1999		2230		3602		5957
	SUB-ACTIVITY TOTAL				17056		14757		18945		43051
	GENERATORS										
151	GENERATORS AND ASSOCIATED EQUIP (M49800)	A			24797		25206		13761		15715
	SUB-ACTIVITY TOTAL				24797		25206		13761		15715
	MATERIAL HANDLING EQUIPMENT										
152	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	A						33	10928		
153	ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)							112	14403	157	16589
154	ITEMS LESS THAN \$2.0M (MHE) (M5365)	A			5816		4694		2843		2772

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)											
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
	SUB-ACTIVITY TOTAL				5816		4694		28174		19361			
	TRAINING EQUIPMENT													
155	COMBAT TRAINING CENTERS SUPPORT (MA6600)			22919		21086		22208			5609			
156	TRAINING DEVICES, NONSYSTEM (NA0100)			78774		85323		71561			102660			
157	SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)	A				31808		30655			88520			
158	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (NA0174)	B									22152			
	SUB-ACTIVITY TOTAL			101693		138217		124424			218941			
	OTHER SUPPORT EQUIPMENT													
159	RECONFIGURABLE SIMULATORS (KA6000)	B						12616			16787			
160	PHYSICAL SECURITY SYSTEMS (OPA3) (NA0780)	A						6190			6220			
161	SYSTEM FIELDING SUPPORT (OPA-3) (NA0070)			19187		13865		10030			14036			
162	BASE LEVEL COM'L EQUIPMENT (MB7000)			17268		7955								
163	ARMS CONTROL COMPLIANCE (SX1000)			4759		3496								
164	COMBINED DEFENSE IMPROVEMENT PROJECT (CDIP (MA0470)			200		3120								
165	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)			40937		36186		21911			15282			
166	PRODUCTION BASE SUPPORT (OTH) (MA0450)			9909		1873		1835			1991			
167	INDUSTRIAL MODERNIZATION INCENTIVE PROG (MA9300)			1										

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
168	SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				4928		10442		9165		14090
169	ITEMS LESS THAN \$2.0M (OTH SPT EQ) (ML5390)			1001							
170	OPA INITIAL SPARES (MY0035)						67960				
171	TRACTOR VAPOR (MA8975)								2223		3973
172	NATURAL GAS UTILIZATION (MA9760)			10000		2482					
173	CLOSED ACCOUNT ADJUSTMENTS (MA9999)			1							
	SUB-ACTIVITY TOTAL			108191		147379			63970		72379
	ACTIVITY TOTAL			433156		529590			351224		481214

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Landing Craft, Mech 8T (SLEP)	1.2									1.2
Landing Craft, Mech 8T (Equip Upg)			0.2	0.4						0.6
Floating Machine Shop (Modernize)	0	1.4								1.4
Crane Barge, 100T (Modernization)		1.3								1.3
Barge Deck Cargo (Modernization)		0.3								0.3
Logistics Support Vessel (Modern)	0	1.4								1.4
Light Amphib Resup Carg 60 (SLEP)			0	0.9						0.9
Tug 100' (Equip Upgrade)			3.0	2.0						5.0
Marine CEN Equip Upg (Watercraft)				0.6						0.6
Distrib Illumin Sys, Elec (Cir Break)	0.3									0.3
Landing Crt Utdl 2000 (Halon Remo)		1.0								1.0
ROWPU Barge (Halon Removal)		0.2								0.2
Landing Crt Utdl 1600 (Halon Remo)		0.2								0.2
SUBTOTAL FOR BA 3	1.5	5.8	3.2	3.9	0	0	0	0	0	14.4

PROCUREMENT PROGRAM INSTALLATION SUMMARY
 (TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Logistic Sup Vessel (Halon Removal)		0.2								0.2
Large Tug (Halon Removal)		0.2								0.2
AN/TSC-85 (Air Conditioner/CFC)	0.3	0.3								0.6
AN/TSC-93 (Air Conditioner/CFC)	0.5	0.5								1.0
AN/ASM-189 (Air Conditioner/CFC)	3.5	0.4								3.9
AN/ASM-190 (Air Conditioner/CFC)	1.9	0.1								2.0
AN/ASM-141 (Air Conditioner/CFC)	0.2									0.2
ESC-146 (Air Conditioner/CFC)	6.1	0.5								6.6
ESC-38 (Air Conditioner/CFC)	0.3									0.3
AN/ASM-82 (Air Conditioner/CFC)	0.3	0.4								0.7
Land Ctr Util 2000 (Refrig/CFC)		0.9								0.9
Logistic Sup Vessel (Refrig/CFC)		0.4								0.4
Land Ctr Util 1600 (Refrig/CFC)		0.3								0.3
SUBTOTAL FOR BA 3	13.1	4.2	0	0	0	0	0	0	0	17.3

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Tug 128' (Refrig/CFC)	0	0.2								0.2
Tug 100' (Refrig/CFC)		0.4								0.4
Tug 65' (Refrig/CFC)		0.3								0.3
Crane 100 Ton (Refrig/CFC)		0.4								0.4
Crane 60 Ton (Refrig/CFC)		0.04								0.04
Floating Machine Shop (Refrig/CFC)		0.1								0.1
Refrig Equip (Power Generation)			0.7							0.7
Laundry Unit (Laundry Water Reuse)			0.1							0.1
Recompress Chamber Diving (E-Upg)		0.3	0.4							0.7
Deploy Med Sys (Air Condition Upg)	0.02									0.02
Micro-Climatic Cooling System		1.6	1.3							2.9
System Block Phase 3				1.8	1.9	0	0.3	0.5		4.5
SUBTOT BA 3 (P 3/3)	0.02	3.34	2.5	1.8	1.9	0	0.3	0.5		10.36
SUBTOT BA 3 (P 2/3)	1.4	5.8	3.2	3.9	0	0	0	0		14.4
SUBTOT BA 3 (P 1/2)	13.1	4.2	0	0	0	0	0	0		17.3
TOTAL FOR BA 3	14.62	13.34	5.7	5.7	1.9	0	0.3	0.5		42.06

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Budget Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Coll Prot Equip, NBC TEMPER, TENT M28

(SX8001)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	4.4	10.2						

DESCRIPTION: The M28 is a highly transportable collective protective liner system for the Tent Extendable Modular Personnel (TEMPER). The modular system consists of: (1) entry/exit airlock(s), (2) liquid/vapor agent resistant liner sections, (3) support kit(s) containing a motor, blower, ducting and ancillary equipment, (4) recirculation filter(s) inside the shelter and (5) NBC filter(s). A tunnel airlock is available for litter patient entry/exit. Like the TEMPER, the M28 components are complexed into different size systems and can be joined to form complexes. There are six different configurations: 16, 32, 48, or 64 foot sections, patient processing and 16 foot extension sections.

The Hospital Unit Base (HUB) configuration will be used to procure the required quantities of M28 components necessary to chemically biologically harden each Chemically Protected Deployable Medical System (CP-DEPHEDS). One HUB requires the following M28 components: ten 16 foot sections, fifteen 64 foot sections, three patient processing units, 10 International Organization for Standardization (ISO) shelter adapters, 30 vestibules, 25 additional support kits, and 25 additional filters (HSFCs).

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Series/Popular Name		(SX8001) Plant City/State Location		C. Manufacturer Name		D. Date		
	Other Procurement, Army 3, Other Spt Equip		Coll Prot Equip, NBC TEMPER, TENT M28		St. Louis, MO		Plant City/State Location		Month/Year		
Weapons System Cost Elements	Ident. Code	94 PY Unit Cost	95 CY Unit Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	98 BY3 Unit Cost	99 BY4 Unit Cost	00 BY5 Unit Cost	01 BY6 Unit Cost	02 BY7 Unit Cost	03 BY8 Unit Cost
1. Hardware	A										
a. 16 ft. System		9,916	11,708								
b. 64 ft. System		28,856	27,062								
c. Patient Process		17,403	21,000								
d. ISO Adapters		280	300								
e. Vestibules		660	715								
f. Support Kits		3,480	3,775								
2. Engineering Support				547							
3. Quality Assurance Support				299							
4. First Article Test (FAT)(Contractor)				51							
TOTAL				4,366							10,236

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Procurement, Army 3 - Other Support Equipment										Feb-95	
C. P-1 ITEM NOMENCLATURE											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
1. Hardware											
FY91	ILC, Frederica, DE	SS/FP	AMCCOM	Dec-90	Sep-92	56	14,641				
a. 16 ft Sys						67	35,689				
b. 64 ft Sys						15	31,054				
c. Patient Process											
FY94	Production Prod Inc.	C/FP	AMCCOM	May-94	Jun-95	50	9,916	YES			
a. 16 ft Sys						75	28,856				
b. 64 ft Sys						15	17,403				
c. Patient Process						50	280				
d. ISO Adapter						150	660				
e. Vest						125	3,480				
f. Support Kits											
FY95	Unknown	C/FP	AMCCOM	Jun-95	Dec-96	130	11,708	YES			
a. 16 ft Sys						195	27,062				
b. 64 ft Sys						39	21,000				
c. Patient Process						130	300				
d. ISO Adapter						390	715				
e. Vest						325	3,775				
f. Support Kits											
2. Filter	Donaldson, Inc. Minneapolis, MN	Option	AMCCOM	Jan-91	Oct-91	287	876				

D. Remarks

Filters were procured under separate contract and are GFE.

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Coll Prot Equip, NBC TEMPER, TENT H2B

(SXB001)

FACILITY NO	S E R V	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT 98	BAL DUE AS OF 1 OCT 98	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												L A T E R																
					FY 97				FY 96				FY 95				FY 94				CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99																												
					FY 97	FY 97	FY 97	FY 97	FY 96	FY 96	FY 96	FY 96	FY 95	FY 95	FY 95	FY 95	FY 94	FY 94	FY 94	FY 94	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
					TOTAL MONTHLY PRODUCTION				140	364	0	364	30	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
1	EA	A	140	140	0	364	30	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45			
2	EA	A	364	364	364	364	30	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME			REMARKS	
		MINIMUM		MAXIMUM		ADMIN LEAD TIME		TOTAL MANUFACTURING AFTER 1 OCT		
		1-8-5	1-8-5	PRIOR 1 OCT		AFTER 1 OCT	PRIOR 1 OCT			AFTER 1 OCT
1	Production Products	30	90	225	3	6	7	19	26	
2	Unknown	30	90	225	3	2	4	14	18	

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092 SYMBOL

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

Mask, Protective, NBC M40/M42

(MA5000)

QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST(IN MILLIONS)	34.5	24.9						

DESCRIPTION:

The M40/M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is mounted on the facepiece either on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40/M42 masks will replace the M17, M25A1 and M9A1 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40/M42 masks to the M40A1/M42A1 configuration. The improvements included a quick-doff hood/second skin (QDH/SS). The Quick-Doff Hood allows doffing the hood without removing the mask. The M40 masks were designed to be compatible with and use the NATO canister in a face mounted configuration worn on either the left or right cheek. The M42 mask is worn in the combat vehicle with a canister in a carrier worn around the waist. The mask is connected to the canister by means of a hose and a second hose connects the canister to the combat vehicle internal air supply. The M42A1 incorporates a canister inter-operability system that allows the use of NATO canisters in the canister carrier system. The M41 Protection Assessment Test System (PATS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PATS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation nucleus counter (CNC).

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army, Budget Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Mask, Chem Biological Protective Field
(M40/M40A1)

(M99600)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	192300	135438						
COST(IN MILLIONS)	28.1	19.3						

DESCRIPTION: The M40 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is mounted on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40 mask will replace the M17 and M9A1 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40 mask to the M40A1 configuration. The M40A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M40 and M40A1 masks were designed to be compatible with and use NATO canisters.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip		B. Weapon Model/Series/Popular Name Mask, Chem -Bio Prot Field (M40/M40A1)		C. Manufacture Name Plant City/State Location ILC, Frederica, DE MSA, Esmond, RI		D. Date Month/Year Feb-95
	Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Qty Total Cost	96 BY1 Unit Cost	97 BY2 Unit Cost
Weapons System Cost Elements							
M40A1 Protective Field Mask	A						
Hardware							
Producer I		125	14,535				
Producer II		156	11,973	103	14,006		
Canister			600		1,155		
Production - Special Tooling			100		2,020		
Engineering Support			900		1,332		
ECP's			21		800		
QUANTITY: Producer I Producer II			115.4 76.9		135.4		
TOTAL			28,129		19,313		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Proc: Army 3, Other Spt Equip										Feb-95	
C. P-1 ITEM NOMENCLATURE											
Mask, Chem Biological Protective Field (M40/M40A1)											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
M40A1											
FY93 Option											
Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Jul-94	Aug-95	3	125	Yes	No		
Producer II	MSA, Esmond, RI	C/FP	AMCCOM	Jul-94	Aug-95	12	155	Yes	No		
FY94											
Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Mar-94	Nov-94	115.4	125	Yes	No		
Producer II	MSA, Esmond, RI	C/FP	AMCCOM	Mar-94	Nov-94	76.9	156	Yes	No		
FY95											
Producer II	MSA, Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	135.4	103	Yes	No		
QUANTITIES IN THOUSANDS											
D. Remarks											

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Mask, Tank
(M42/M42A1)

(M99400)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	27864	11666						
COST(IN MILLIONS)	6.4	2.6						

DESCRIPTION: The M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is attached to the facepiece by a hose. The M42 mask has a microphone in the high noise environment within the combat vehicle. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M42 mask will replace the M25A1 series mask. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A pre-planned product improvement was incorporated in FY93 to upgrade the M42 mask to the M42A1 configuration. The M42A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M42 mask is worn in the combat vehicle with a canister in a carrier worn around the waist. Hoses connect the mask to the canister and the canister to the combat vehicle internal air supply. The M42A1 incorporates a canister inter operability system that allows the use of NATO canisters in the canister carrier system.

P-1 SHOPPING LIST

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EXHIBIT P-40

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Series/Popular Name		C. Manufacture Name Plant City/State Location		D. Date Month/Year		
	Other Procurement, Army 3, Other Spt Equip		Mask Tank (M42/M42A1)		ILC, Frederica, DE MSA, Esmond, RI		Feb-95		
	Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Qty Total Cost	96 BY1 Unit Cost	Qty Total Cost	97 BY2 Unit Cost	Qty Total Cost
Weapons Systems Cost Elements									
M42A1 Tank Mask Hardware	A	193	3,224	166	1,937				
Producer I		248	2,763						
Producer II									
Canister			197		100				
Production - Special Tooling			50		308				
Engineering Support			100		200				
ECP's			32		69				
QUANTITY: Producer I			16.7		11.7				
Producer II			11.2						
TOTAL			6,366		2,614				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Procurement: Army 3 - Other Support Equipment										Feb-95	
C. P-1 ITEM NOMENCLATURE											
Mask Tank (M42/M42A1)											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
M42A1 FY94 Producer I Producer II	ILC, Frederica, DE MSA, Esmond, RI	C/FP C/FP	AMCCOM AMCCOM	Mar-94 Mar-94	Nov-94 Nov-94	16.7 11.2	193 248	Yes Yes	No No		
FY95 Producer II	MSA, Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	11.7	166	Yes	No		
QUANTITIES IN THOUSANDS											
D. Remarks											

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Budget Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
M41 Protection Assessment Test System (PATS)

(M95800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		500						
COST (IN MILLIONS)		3.0						

DESCRIPTION: The M41 Protective Mask Fit Validation System (PMFVS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PMFVS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation nucleus counter (CNC). The CNC operates by continuously sampling and counting individual particles that occur naturally in the surrounding air. The PMFVS measures the concentration of these particles both inside and outside the mask and from these values calculates a fit factor (FF). The FF is a measure of the quality of the face seal. The PMFVS will ensure that the soldier's assigned mask is properly sized and operational.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip		B. Weapon Model/Series/Popular Name M41 Protection Assessment Test System (PATS)			C. Manufacture Name Plant City/State Location TSI, Inc. St. Paul, MN			D. Date Month/Year Feb-95
	Ident. Code	94 PY Unit Cost	95 CY Unit Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	Qty	Total Cost	Qty	Total Cost
Weapons System Cost Elements									
1. PATS	A		5100	2550					
2. Battery (BA-5847/U)	A		30	15					
3. Isopropyl Alcohol (99.5% grade)			45	23					
4. Engineering Support (Gov't) (In-house)				412					
TOTAL							3000		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE										A. DATE	
Other Proc. Army 3, Other Spt Equip		M41 Protection Assessment Test System (PATS)										Feb-95	
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev	If Yes, When Avail			
FY95	TSI, Inc. St. Paul, MN(PMFVS) Unknown (Battery)* TBD (Alcohol)*	SS/FP C/FP C/FP	ACALA CECOM ACALA	Jul-95 Jul-95 Jul-95	Nov-95 Nov-95 Nov-95	500 500 500	5,100 30 45	Yes Yes Yes	No No No				
D. Remarks *Items required to operate the PATS													

REPORTS CONTROL SYMBOL DD-COMP(AR)1092			UNCLASSIFIED			PRODUCTION SCHEDULE												DATE: February 1995														
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NOMENCLATURE M&I Protective Mask Fit Validation System (PHFVS)												(MPS800)																	
FACILITY NO	S / U R E / M V	PROGRAM QUANTITY					ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			L A T E R														
		FY94	FY95	FY96	FY97	FY98			FY99	%	CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97															
1	EA	A	500				500		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL MONTHLY PRODUCTION																		500														
FACILITY NO	MANUFACTURERS NAME & LOCATION	MINIMUM	1-8-5	MAXIMUM	MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME												REMARKS														
1	TSI, Inc., St. Paul, MN	100	125	150	3	ADMIN LEAD TIME		MANUFACTURING TIME			TOTAL																					
						INITIAL	PRIOR 1 OCT	AFTER 1 OCT	1 OCT	2	4	5	9																			
						REORDER				2	3	5	8																			

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army, Budget Activity 3,
Other Support Equipment

P-1 ITEM NOMENCLATURE

Remote Sensing Chemical Agent Alarm XM21

(M96800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		156						
COST(IN MILLIONS)		18.8						

DESCRIPTION: The XM21 Remote Sensing Chemical Agent Alarm (RSCAAL) is an automatic scanning, passive infrared (IR) sensor which detects nerve and blister agent vapor clouds at a stand-off distance of up to five kilometers. Because the XM21 technology can remotely detect changes in the infrared spectrum caused by an agent cloud, the RSCAAL can detect agent without having to be in the agent as is necessary with "point" detectors. The XM21 Alarm system consists of a detector, tripod, and a transit case. Independent power sources as well as vehicle power through the use of a North Atlantic Treaty Organization (NATO) adapter may be used for the XM21 Alarm. The XM21 Alarm will be used for point and area surveillance missions in both vehicle-mounted and tripod-mounted roles.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Support Equip		B. Weapon Model/Series/Popular Name Remote Sensing Chemical Agent Alarm, XM21		C. Manufacture Name Plant City/State Location Brunswick Deland, FL		D. Date Month/Year Feb-95
	Ident. Code	94 PY Unit Cost	95 CY Unit Cost	Qty Total Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	Qty Total Cost
Weapons System Cost Elements							
1. XM21 Hardware	B		101,263	15,797			
2. Engineering Support (Contractor)				750			
3. Engineering Support (Gov't)				800			
4. Quality Assurance Support				500			
5. Documentation				67			
6. Cost Bearing ECPS				614			
7. Warranty				311			
TOTAL				18,839			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Proc: Army 3, Other Spt Equip										Feb-95	
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	C. P-1 ITEM NOMENCLATURE			Specs Avail Now	Spec Rev Required	If Yes, When Avail	
					Remote Sensing Chemical Agent Alarm XM21	Quantity	Unit Cost				
1. Hardware											
FY92	Brunswick Deland, FL	SS/FP	AMCCOM	Jul-92	Apr-95	18	150,000	Yes			
FY95	Brunswick Deland, FL	Option	CBDCCOM	Feb-95	Dec-95	156	101,263	Yes			

D. Remarks FY92 items were received in Nov 1993 for PQT & FAT. After test, items will be returned to contractor for refurbishment. Refurbished items will be available for fielding in Apr 95. The refurbishment is part of the FY92 contract.

CODE "B" ITEM DESCRIPTION APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		DATE February 1995 P-1 ITEM NOMENCLATURE Remote Sensing Chemical Agent Alarm XM21 (M96800)	REPORT CONTROL SYMBOL DD-COMP (AR) 1092
CURRENT DEVELOPMENT AND TEST STATUS			
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	CURRENT Jun 90 May 90 (T) May 94 (V) May 90 (T) May 94 (V) Sep 90	SCHEDULE DATE LAST REPORTED REASON FOR DELAY
ESTIMATED DATE OF APPROVAL FOR SERVICE USE TC LRP Mar 92 TC Standard Feb 95			
EQUIPMENT ITEM(S) TO BE REPLACED NONE			
This is a new capability.			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Replaces no existing system; provides first generation capability for stand-off detection of chemical agent vapors.			
DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR NAME Brunswick Defense	PLANT LOCATION Deland, FL	COMPONENT System	RDT&E FUNDING PROFILE (\$ IN MILLIONS) THRU PYR 74.6 74.6 CY BY1 BY2 BEYOND BY'S
TOTAL RDT&E FUNDING			
REMARKS T = Date tripold mounted OT and IOT&E completed. V = Date vehicle mounted OT and IOT&E completed.			
DD Form 2443, JUL 88		P-1 SHOPPING LIST ITEM NO 110 PAGE NO 4 OF 5	
		Page of	Pages EXHIBIT P-19

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Budget Activity 3,
Other Support Equipment

P-1 ITEM NOMENCLATURE
Automatic Chemical Agent Alarm (ACADA), XM22

(M98800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		160*						
COST (IN MILLIONS)		5.5						

DESCRIPTION: The Automatic Chemical Agent Alarm/Non-Developmental Item (ACADA/NDI) is a man-portable automatic alarm system capable of detecting standard blister and nerve agents. The ACADA/NDI operates with no human interference after system start-up, detects automatically for a minimum of 24 hours, provides audio and visual alarms, and has a communication interface to support battlefield automation systems. The ACADA/NDI meets the critical needs of the US Forces for an automatic point sampling chemical agent alarm.

* P-1 has an incorrect quantity for this system. Based upon current program costs, FY 95 quantity should be 100.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip		B. Weapon Model/Series/Popular Name Automatic Chem Agt Alarm (ACADA) XM22		C. Manufacture Name Plant City/State Location Unknown		D. Date Month/Year Feb-95
	Ident. Code	94 PY Unit Cost	95 CY Unit Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	Qty Total Cost	Qty Total Cost
Weapons System Cost Elements							
1. Hardware	B		12,000	1,200			
2. Engineering Support				1365			
3. Quality Assurance Support				390			
4. First Article Test				1,000			
5. Refurbishment and Operational Verification of Alarms				360			
6. Procurement of TDP				900			
7. ILS Support				240			
TOTAL				5,455			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Proc: Army 3, Other Spt Equip										Feb-95	
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	C. P-1 ITEM NOMENCLATURE			Specs Avail Now	Spec Rev Required	If Yes, When Avail	
					Automatic Chemical Agent Alarm (ACADA) XM22	Quantity	Unit Cost				
Hardware FY95	Unknown	C/FP	CBDCOM	Jun-95	Oct-96	100	12,000	No	Yes	Feb-95	
D. Remarks											

UNCLASSIFIED

CODE " B " ITEM DESCRIPTION

REPORT CONTROL SYMBOL
DD-COMP(AR)1092

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Automatic Chemical Agent Alarm (ACADA), XM22
(M98800)

CURRENT DEVELOPMENT AND TEST STATUS

SCHEDULE DATE		REASON FOR DELAY
CURRENT	LAST REPORTED	
Jan 95 N/A Jan 95 Feb 95	Jan 95 N/A Jun 95 Feb 95	The ACADA/MDI program was restructured. The DT&E and OT&E will test requirements identified as critical by the joint services. The performance spec must be available for the initial procurement.

ESTIMATED DATE OF APPROVAL FOR SERVICE USE TC LRP Mar 95 TC/STD Sep 96

EQUIPMENT ITEM(S) TO BE REPLACED: Complement M8A1 Automatic Chemical Agent Alarm

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: First time capability to automatically detect blister agents on the battlefield. Significantly increased nerve agent sensitivity and improved interference rejection to detect agent threats.

DEVELOPMENT CONTRACT INFORMATION

RD&E FUNDING PROFILE (\$ IN MILLIONS)						
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR 94	CY (95)	BY1	BEYOND BY'S
Environmental Technologies Group, INC. (ETGI) OGA Battelle In-house & Material	Towson, MD	Complete System	72.7	0		
	Edgewood, MD		1.0	1.7		
TOTAL RD&E FUNDING			33.0			
REMARKS:			107.5	1.7		

Total RD&E funding includes in-house support.

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Automatic Chemical Agent Alarm, XM22

(M98800)

FACILITY NO	U / M	S E R V	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT 99	BAL DUE AS OF 1 OCT 99	FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97											
						CALENDAR YEAR 95				CALENDAR YEAR 96				CALENDAR YEAR 97				CALENDAR YEAR 96				CALENDAR YEAR 97				CALENDAR YEAR 97															
						OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN	OCT	NOV	DEC	JAN								
1	EA	A	100	0	100																																				
TOTAL MONTHLY PRODUCTION																																									

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME			REMARKS:
		MINIMUM	1-8-5	MAXIMUM		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT	
1	UNKNOWN	20	250	700	6	PRIOR 1 OCT	AFTER 1 OCT	TOTAL AFTER 1 OCT	
						INITIAL		25	
						REORDER		7	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED B U D G E T I T E M J U S T I F I C A T I O N S H E E T					DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 - Other Support Equipment		P-1 ITEM NOMENCLATURE Decontaminate App Pwr Dr Lt Mt M17 (M67400)							
QUANTITY		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY 01
COST(IN MILLIONS)		515							
		7.2							
DESCRIPTION: The M17A3 is a lightweight, compact, engine driven pump and water heating unit designed to decontaminate equipment. The unit is designed to draw water from any source and deliver it at controlled temperatures up to 120 degrees Centigrade and pressures up to 100 pounds per square inch. The basic unit is supplemented by an accessory kit containing hoses, cleaning jets, and personnel shower hardware. A rubberized fabric, self-supporting, collapsible tank with a capacity of 3,000 gallons is included with the system.									
COOPERATIVE AGREEMENTS: A license between the U.S. Government; Engineered Air Systems, Inc. (EASI), St. Louis, MO; and Karl H. Hoie and Co. (HOIE) of Norway, signed 7 Jul 87, provided the following: a) FY 87-88 sole source procurement to EASI for a total of 1,000 systems; b) Government acquisition of data rights allowed competitive procurement, which started in FY 89; c) Royalties to HOIE on the first 3,400 systems produced (started in FY 87) and to EASI for the first 1,000 systems awarded (after FY 88) to a producer other than EASI.									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 113 PAGE NO 1 OF 1			UNCLASSIFIED		Page of Pages EXHIBIT P-40		

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army 3 -
Other Support Equipment

P-1 ITEM NOMENCLATURE

Gen Smk Mech: Mtrzd Dual Purp, XM56

(M99103)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	12*	60*		70	71			
COST (IN MILLIONS)	4.9	12.4		13.0	13.3			

DESCRIPTION:

The XM56, mounted on the High Mobility Multipurpose Wheeled Vehicle (HMMWV), will disseminate smoke on the move and from stationary positions to defeat enemy sensors and smart munitions. The XM56 is a large area smoke generator system providing visual, infrared and through a pre planned product improvement (P3I) millimeter wave-length obscuration. The system uses a turbine engine as a power source to disseminate obscurants. The visual screening module is capable of vaporizing fog oil for up to 60 minutes. The infrared and millimeter wave screening (P3I) modules will be capable of disseminating a particulate material to provide 30 minutes of screening.

JUSTIFICATION: World wide availability and proliferation of weapons systems operating in the infrared and millimeter wave regions requires new countermeasures. The XM56 is a force multiplier and increases survivability of US forces by defeating or degrading threat surveillance and weapon system sight to include tank thermal sights guided munitions, directed energy weapons, and other systems operating in the visual through the far-infrared regions of the electromagnetic spectrum. The XM56 will operate in support of maneuver units as well as performing mobile or stationary operations in rear areas. The XM56 system provides the basic generator components for the XM58 system. Force Package I requires 267 M56 Smoke Generators.

* P1 has an incorrect quantity for this system. Based upon current program costs, FY94 quantity should be 30 each and the FY 95 quantity should be 47 each.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Series/Popular Name		C. Manufacture Name Plant City/State Location		D. Date Month/Year		
	OPA-3 Other Spt Equip		Gen Smk Mech: Mtrzd Dual Purp. M56		Unknown		Feb-95		
	Ident. Code	PY94 Unit Cost	Qty 30 Total Cost	CY95 Unit Cost	Qty 47 Total Cost	BY96 Unit Cost	Qty 0 Total Cost	BY97 Unit Cost	Qty 70 Total Cost
Weapons System Cost Elements									
M56 Smoke Generators	B	165,000	4,900	165,000	7,755			173,071	12,115
Engineering Support					2,346				899
PQT					990				
DMWR					334				
FAT					985				
TOTAL			4900		12,410				13,014

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
C. P-1 ITEM NOMENCLATURE										Feb-95	
Gen Smk Mech: Mirzd Dual Pur XM56											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
FY94	TBS	C/FP M5(1)	CBDCOM	Mar-95	Oct-96	30	165,000	YES	NO		
FY95	TBS	C/FP M5(1)	CBDCOM	Mar-95	Apr-97	47	165,000	YES	NO		
FY97	TBS	C/FP M5(3)	CBDCOM	Dec-96	Jan-98	70	173,071	YES	NO		

D. Remarks

This contract produces both the M56 System and components for the XM58. The XM58 components contract will be awarded in the second year.

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

PRODUCTION SCHEDULE

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army 3 -
Other Support Equipment

P-1 ITEM NOMENCLATURE

Gen Smk Mech: Mtrzd Dual Purp M56

(M99103)

FACILITY NO	S E R / M V	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			L A T E R															
					CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97																		
					FY 93P	FY 94	FY 95	FY 96	FY 97	FY 98	OCT	NOV	DEC		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
1	A	30		30																								0	
1	A	47		47																								18	
1	A	70		70																								70	
				147	TOTAL MONTHLY PRODUCTION																				88				
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME		TOTAL MANUFACTURING AFTER 1 OCT
		MINIMUM	1-8-5	MAXIMUM		ADMIN LEAD TIME	MANUFACTURING TIME	
1	Unknown	3	10	30	5	PRIOR 1 OCT	INITIAL	
						AFTER 1 OCT	REORDER	
								25
								16

REMARKS: This contract provides common components for the M56 and XM58 and associated spares. The 1-8-5 rate will be achieved between the M56 and XM58. Initial manufacturing time includes time for FAT & PQT.
FY94 funding will be awarded on FY95 contract and deliveries combined w/FY95 deliveries.

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE: February 1992

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Gen Smk Mech: Mtrzd Dual Purp, M56

(N99103)

FACILITY NO	U / M	S E R V	PROGRAM QUANTITY					ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 00		L A T E R																								
										CALENDAR YEAR 97		CALENDAR YEAR 98		CALENDAR YEAR 99		CALENDAR YEAR 00																								
			FY 93P	FY 94	FY 95	FY 96	FY 97			FY 98	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
1		A	30					0																																
1		A		47				18	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
1		A			70			70	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
TOTAL MONTHLY PRODUCTION								59	88	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

REMARKS: This contract provides common components for the M56 and XM58 and associated spares. The 1-8-5 rate will be achieved between the M56 & XM58. Initial manufacturing time includes time for FAT & PQT.

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME				
		MINIMUM	1-8-5		MAXIMUM	ADMIN LEAD TIME		MANUFACTURING TIME	TOTAL AFTER 1 OCT
						PRIORITY	AFTER 1 OCT		
1	Unknown	3	10	30	5	6	5	20	25
						0	2	14	16

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Gen Smk Mech: Mechanized Smk Obs Sys XM58 (M99107)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY			34	34	27			
COST(IN MILLIONS)			12.7	12.1	9.7			

DESCRIPTION: The XM58 provides heavy unit maneuver commanders the capability of generating large area screens to shield forces from visual and infrared reconnaissance, intelligence, surveillance, and target acquisition threats. The XM58 is a mechanized large area screening system providing visual and infrared wavelength obscuration. The system is comprised of the M113A3 armored personnel carrier, smoke generator components and the AV/VAS3 Drivers Thermal Viewer (DTV). The visual screening module is capable of vaporizing fog oil for up to 90 minutes without resupply. The infrared screening module is capable of disseminating a particulate material to provide 30 minutes of screening. The thermal view permits operating in the visual cloud.

JUSTIFICATION: Operation Desert Storm identified an urgent need to upgrade the mobility of the currently fielded M1059 Smoke Generator Carrier. The XM58 Mechanized Smoke Obscurant System FY96-FY97 procurement will equip mechanized combat smoke generator units with the capability of keeping pace with the M1 Abrams Tank and M3 Bradley Fighting Vehicle units. The XM58 also significantly increases survivability of US forces by providing the first ever capability of generating large area visual and infrared smoke clouds. Used in mobile or stationary emplacement, the XM58 will degrade threat surveillance and weapon systems sights to include: tank thermal sights, guided munitions, directed energy weapons, and other systems operating in the visual through far infrared regions of the electromagnetic spectrum. The XM58 platoon of six vehicles is task organized to Divisional or Corps maneuver commanders, responds immediately to shifts in meteorological conditions, and covers a 1km x 5km area in its stationary role.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Series/Popular Name		C. Manufacture Name Plant City/State Location		D. Date Month/Year
	Ident. Code	PY Unit Cost	Qty Total Cost	CY Unit Cost	BY1 96 Unit Cost	Qty 34 Total Cost	Feb-95
Weapons System Cost Elements							
Smoke Generator Components	B				136,147	4,629	4,731
Drivers Thermal Viewer (AN-VAS3)					49,824	1,694	1,731
XM58 Integration						4,140	4,231
Engineering Support						2,235	1,059
PQT							298
TOTAL						12,698	12,050

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
C. P-1 ITEM NOMENCLATURE (M99107)										Feb-95	
OPA-3: Other Support Equipment											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
DTV's FY96 FY97	HUGHES HUGHES	SS/FPM4(2) SS/FPM4(3)	CECOM CECOM	Dec-95 Dec-96	Jan-97 Jan-98	34 34	49,824 50,912	Yes Yes	No No		
Smk Gen Crmpts FY96 FY97	TBS TBS	C/M5(2) C/M5(3)	CBDCOM CBDCOM	Dec-95 Dec-96	Jan-97 Jan-98	34 34	136,147 139,147	No	No	Aug-95	
XM58 Integration FY96 FY97	TBS TBS	C/M4(1) C/M4(2)	CBDCOM CBDCOM	Dec-95 Dec-96	Feb-97 Feb-98	34 34	121,765 124,441	No	No	Aug-95	

D. Remarks

The Smoke Generator Components contract will be awarded as the 2nd year of the XM56 (M99103) contract.

UNCLASSIFIED		DATE: February 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092			
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE Gen Smk Mech: Mechanized Smk Obs Sys XM58 (M99107)					
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment							
CURRENT DEVELOPMENT AND TEST STATUS							
CURRENT		LAST REPORTED		REASON FOR DELAY			
Jan 95							
Apr 95							
Aug 95							
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Aug 95 (TC IPR)							
EQUIPMENT ITEM(S) TO BE REPLACED: Generator, Smoke, Mechanical: Pulse Jet M3A4							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Safety and operational improvements plus mobility. Increases survivability by improving mobility and maneuverability comparable to supported forces and by adding infrared screening capability.							
DEVELOPMENT CONTRACT INFORMATION							
RT&E FUNDING PROFILE (\$ IN MILLIONS)							
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY95	BY1	BY2	BEYOND BY'S
In-House and OGA	ERDEC and Test Sites		9.7	1.8			
TOTAL RT&E FUNDING			9.7	1.8			
REMARKS							
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REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

PRODUCTION SCHEDULE

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Gen Smk Mech: Mechanized Smk Obs Sys XM58

(M99107)

FACILITY NO	S U / R M	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 99												FISCAL YEAR 00												FISCAL YEAR 01												L A T E R														
					FY 94-97				98			CALENDAR YEAR 99			CALENDAR YEAR 00			CALENDAR YEAR 01			CALENDAR YEAR 00			CALENDAR YEAR 01																															
					FY 94	FY 95	FY 96	FY 97	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP										
					93P	94	95	96																																															
1	EA	A	34	0																																																			
1	EA	A	34	10																																																			
				58	10	3	3	4																																															
TOTAL MONTHLY PRODUCTION																																																							
FACILITY NO	MANUFACTURERS NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX AFTER D-DAY					PROCUREMENT LEAD TIME			REMARKS:																																										
			MINIMUM	1-8-5	MAXIMUM	1 OCT	NOV	DEC	1 OCT	ADMIN LEAD TIME	PRIOR 1 OCT	AFTER 1 OCT	MANUFACTURING TIME	TOTAL AFTER 1 OCT																																									
1	Unknown		1	10	30	5																																																	

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Gen Set, Smoke, Mech: Pulse Jet M157A2

(M99104)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			170	118				
COST(IN MILLIONS)			5.2	3.6				

DESCRIPTION: The M157A2 Smoke Generator System (SGS) utilizes two remote operated pulse jet generators to vaporize fog oil to produce large area visual smoke screens. System consists of two generators, one control panel, one air compressor assembly, one fog oil pump assembly and associated hoses and electrical cables. The M157A1, type classified standard A on 8 Oct 93, incorporated essential user requested safety and operational improvements, such as smaller control panel, improved fire detection system, fuel water separator/filter and new engine head which permits operation at either sea level or high altitude. The M284A1 mounting kit can accommodate either the 80 or 120 gallon fog oil tank on either the M1097 or M1037 HMMMV, depending on operational equipment load. The M157A2 will permit the two generators to utilize JP8, JP5, JP4, DF2, DF1 in addition to MORGAS to produce heat in accordance with DOD directives. The M157A2 will also be incorporated into a M113 Armored Personnel Carrier as the M1059 Smoke Generator Carrier (SGC).

JUSTIFICATION: The M157A2 FY96-FY97 procurement will equip combat smoke generator units with the first ever capability of making mobile smoke at any altitude using multiple fuels to produce heat. The M157A2 significantly increases survivability of US forces by defeating or degrading threat surveillance systems. Highly mobile, the M157A2 can maneuver in response to changing meteorological conditions to provide one hour of continuous large area, visual smoke, supporting Corps and Division combat maneuvers. In its stationary role, the M157A2 equipped smoke platoon is capable of visually screening a 1x5 KM area in support of rear area operations.

P-1 SHOPPING LIST

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EXHIBIT P-40

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity Title/No.		B. Weapon Model/Series/Popular Name		C. Manufacture Name Plant City/State Location			D. Date Month/Year	
	OPA-3 Other Spt Equip		Gen Set, Smoke Mech: Pulse Jet M157A2		(M99104)			Feb-95	
	Ident. Code	PY Unit Cost	Qty Total Cost	CY95 Unit Cost	Qty Total Cost	BY1 96 Unit Cost	Qty 170 Total Cost	BY2 Unit Cost	Qty 118 Total Cost
Weapons System Cost Elements									
M157A2 Generator Set (includes M284E1 Mounting Kits)	A					28,118	4780	28,212	3329
Engineering Support							285		285
FAT/PQT							149		
TOTAL							5214		3614

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE (M99104)										A. DATE	
OPA-3: Other Support Equipment		Gen Set, Smoke, Mech: Pulse Jet, M157A2										Feb-95	
Cost Element Fiscal Year	Contractor and Location	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail				
M157 Generator Set FY87	Minowitz Rosebille, MI	AMCCOM	Sep-87	Nov-88	320	16,422							
M157A2 Generator Set FY96 FY97	TBS TBS	CBDCOM CBDCOM	Jan-96 Jan-97	Sep-96 Sep-97	170 118	28,118 28,212	Yes						
D. Remarks													

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Budget Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Radiation Monitoring System

(MB3001)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	8.3							

DESCRIPTION: The Radiation Monitoring Systems Line funds items used in the detection, measurement of radiation and devices for the reading of dosimeters.
Items programmed for acquisition include the following:

- (1) Radiac Set, AN/VDR-2
- (2) Computer/Indicator, CP-696-PD

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
OTHER PROCUREMENT ARMY
ACTIVITY 3 OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

RIBBON BRIDGE

(MA8890)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			3.8	4.5	4.6	4.7	9.6	9.0

DESCRIPTION: The Ribbon Bridge consists of: Interior Bays (M266), Ramp Bays (M267), Bridge Boat (M236), Cradle (M263), Cargo Pallet (M256), and Transporters. (M268). These components are required to transport, launch, erect, and retrieve a floating bridge up to 200 meters long per bridge company. Ribbon Bridges have a capacity of 80 tons, and are used to transport weapon systems, troops and supplies over water when permanent bridges are not available.

JUSTIFICATION: The Ribbon Bridge provides the capability for a continuous floating roadway to be rapidly constructed for transporting assault and tactical vehicles across streams and rivers that cannot be forded. Procurement of the Improved Ribbon Bridge Transporter (IRBT) is planned for FY 96 and FY 97. Improvements will provide a vehicle that will replace the current overaged fleet with a vehicle that will: improve ground mobility (larger payload), and enhance readiness by decreasing construction and retrieval time. The IRBT is designed to be compatible with the Palletized Loading System (PLS), and will operate with the current Ribbon Bridge, the Improved Ribbon Bridge, the Medium Girder Bridge, and the Heavy Dry Support Bridge.

UNCLASSIFIED

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

P-1 ITEM NOMENCLATURE

RIBBON BRIDGE

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

see P5-A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity	TOTAL COST
		FY 94	Quantity	FY 95	Quantity	FY 96	Quantity		
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Improved Ribbon Bridge Transporter (M268)	B							97	4,472
								23	46
								3,828	4,472
TOTAL								166,435	97,217
									4,472

P-1 SHOPPING LIST

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UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

OTHER PROCUREMENT ARMY

ACTIVITY 3 OTHER SUPPORT EQUIPMENT

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE RIBBON BRIDGE

(IMPROVED RIBBON BRIDGE TRANSPORTER, M26800)

(MA8890)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			23	46	46	46	46	46
COST (IN MILLIONS)			3.8	4.5	4.6	4.7	4.8	4.9

DESCRIPTION: Transporter Bridge Floating, HEMTT Chassis, consists of Heavy Mobile Tactical Truck (HEMTT) modified to transport, launch and retrieve the Ribbon Bridge components. The Improved Ribbon Bridge Transporter is designed to be compatible with the current Ribbon Bridge, as well as the Improved Ribbon Bridge components.

JUSTIFICATION: The Improved Ribbon Bridge Transporter (IRBT) will replace the current, overaged 5 ton (812 series) transporters, with 10 ton capacity transporters. The IRBT will decrease transportation and construction/retrieval time, thus increasing mobility and readiness of the Ribbon Bridge companies.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
RIBBON BRIDGE

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
SEE P5-A

WEAPON MODEL/SERIES/POPULAR NAME
IMPROVED RIBBON BRIDGE TRANSPORTER (M26800)

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
1. Hardware	B					86,217	1,983	88,804	46
2. Acceptance Testing							91		4,085
3. Data							1,542		
4. Production Engineering							212		187
5. Engineering Change Orders									200
TOTAL						166,435	3,828	97,217	4,472

P-1 SHOPPING LIST

UNCLASSIFIED

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EXHIBIT P-5

REPORTS CONTAINING SYMBOL		UNCLASSIFIED		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995		
DD-COMP(AR) 1092		APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		Other Support Equipment		RIBBON BRIDGE (IMPROVED RIBBON BRIDGE TRANSPORTER, M26800) (MA8890)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1996	VSE, ALEXANDRIA VA.	SS/FFP (1)	ATCOM	Dec 95	Jan 97	23	86,217	NO	YES	Dec 95
1997	TBS	C/FP/REQ 3 (1)	ATCOM	Mar 97	Dec 97	46	88,804	NO	YES	Dec 95
REMARKS: 1996 Award is a fixed price production option on a R&D contract awarded in 1993. 1997 is a new contract.										
P1 SHOPPING LIST				UNCLASSIFIED				Page of Pages		
ITEM NO 119				PAGE NO 5 OF 7				EXHIBIT P-5A		

IMPROVED RIBBON BRIDGE TRANSPORTER (MA8890)

Other Procurement: Army 3
Other Support Equipment

S E R V	U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	A	23	23							3	5	5	5	5	5												
2	A	46	46																								
TOTALS				69						3	5	5	5	5	5												

F A C	MANUFACTURERS NAME & LOCATION	MIN	1-8-5	MAX	MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REORDER	TOTAL AFTER 1 OCT
						ADMIN LEAD TIME	MANUFACTURING TIME		
1	VSE ALEXANDRIA VA.	1	5	10	5	0	2	16	
2	TBS	1	5	10	5	0	5	10	15

UNCLASSIFIED
CODE "B" ITEM DESCRIPTION
 DATE February 1995
 REPORT CONTROL DD-COMP(AR)
 (MA8890)

APPROPRIATION/BUDGET ACTIVITY
 Other Procurement, Army - OPA 3
 Other Support Equipment
 Ribbon Bridge

CURRENT DEVELOPMENT AND TEST STATUS
 ESTIMATED DATE OF APPROVAL FOR SERVICE USE: 15-Dec-95
 EQUIPMENT ITEM(S) TO BE REPLACED:
 Replace Ribbon Bridge Transporter

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:
 Improved mobility, increased payload from 5 ton to 10 tons, interoperability with Palletized Loading System (PLS).

DEVELOPMENT CONTRACT INFORMATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	THRU PYR	FY 95	FY 96	FY 97	BEYOND BY'S
VSE CORP.	Alexandria, VA.	1.64	1.0	0.30	0	0
TOTAL RDT&E FUNDING		1.64	1.0	0.30	0	0

BUDGET ITEM JUSTIFICATION RECORD

DATE
February 1995

APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE Dispenser, Mine M139 (G39100)							
Other Procurement, Army 3 Other Support Equipment	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY (EA)	166	179	0	35				
COST (in Millions)	15.9	16.2	1.0	4.3				

DESCRIPTION:

The M139 Mine Dispenser for the VOLCANO system, mounted on a variety of ground vehicles and the UH-60 helicopter, is used to emplace the GATOR BLU-91/B Anti-Tank and the BLU-92/B Anti-Personnel mines. The system consists of four launcher racks and a dispenser control unit which are common to all vehicles/aircraft and mounting hardware which is adapted to each model. The system is critical for the United States Army to be able to conduct Full-Dimensional Operations.

This system is designed for quick connect/disconnect to aid loading/unloading in the field. It will permit quick emplacement of a minefield (1000 meters by 100 meters) that will delay, disrupt and canalize enemy forces and restrict their use of critical routes or terrain.

JUSTIFICATION:

The VOLCANO system is the centerpiece of the Army landmine system. These dispensers will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of a greater number of personnel to hostile fire.

The FY 1996 funds will provide for continued program support.

The FY 1997 procurement is required for the continuation of fielding to designated units.

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

WEAPON SYSTEM COST ELEMENTS	Ident. Code	A. Appropriation/Budget Activity/No.		B. WEAPON MODEL/NAME		C. MANUFACTURER NAME		D. DATE	
		FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	Qty Total Cost
1. M139 Dispenser (M548 AMMO CARRIER)	A	84, 813	121 10,262	83, 721	179 14,986			84, 657	35 2963
2. M139 Dispenser (5-Ton TRUCK)	A	84, 813	45 3,817						
Subtotal HARDWARE COST			14,079		14,986				2,963
3. Project Management Administration			315		100		100		150
4. Engineering Support			1,114		978		773		1040
5. Documentation			100		50		0		0
6. Quality Assurance			125		80		80		120
7. Acceptance Testing			200		0		0		0
Subtotal SUPPORT COST			1,854		1,208		953		1,310
GROSS P-1 END COST			15,933		16,194		953		4,273
Weapon System Unit Cost		95, 982		90, 469				122, 086	

ITEM NO. 120

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 3-Other Support Equipment		C. P-1 LINE ITEM NOMENCLATURE Dispenser, Mine M139 (G39100)								
Cost Element FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. M139 Dispenser w/ Installation Kit for M548 AMMO CARRIER										
FY 92	Brunswick, Deland, FL	C/FP	ARDEC	AUG 92	JUL 93	130	93,931	YES		
FY 94	To Be Selected	C/FP	ARDEC	APR 95	JUL 96	121	84,813	YES		
FY 95	To Be Selected	C/FP	ARDEC	APR 95	MAY 97	179	83,721	YES		
FY 97	To Be Selected	Option	ARDEC	DEC 96	MAR 98	35	84,657	YES		
2. M139 Dispenser w/ Installation Kit for 5-Ton TRUCK										
FY 94	To Be Selected	C/FP	ARDEC	APR 95	FEB 97	45	84,813	YES		
D. REMARKS										

FY 96 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature
Dispenser, Mine M139 (G39100)

DATE:
February 1995

ITEM/MANUFACTURER/ PROCUREMENT YEAR	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99											
	Calendar Year 97												Calendar Year 98												Calendar Year 99											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
M139 Dispenser (UH-60 AIR SYSTEM)																																				
Brunswick Corp FY 93																																				
1. M139 Dispenser (M548 AMMO CARRIER)																																				
To Be Selected FY 94								16	18	18	18																									
FY 95																																				
FY 96																																				
FY 97																																				
2. M139 Dispenser (5-Ton TRUCK)																																				
To Be Selected FY 94								7	18	18	2																									

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COM(ARI) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE:

Metallic Mine Detector, Vehicle Mounted

(M80100)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				21	34	22		
COST (IN MILLIONS)				6.8	9.9	6.7		

DESCRIPTION: This detector is a remotely operated vehicle detector. The system consists of three main components: Remote All Terrain Vehicle (ATV), Detector Head and Control Station. The remote ATV is a six wheeled all terrain diesel powered vehicle whose movements are controlled from the Control Station via telemetry and a camera mounted on the ATV which provides real-time imagery. The Detector Head, the mine detector of the system, is towed by the ATV. It will signal the Control Station and leave a mark on the ground where there has been a detection. The Control Station, the brains of the system, records the location of the detection on a computer hard drive. This information is then relayed to the host vehicle commander. The Control Station is portable and can be operated out of any vehicle which has a 24 volt battery system.

JUSTIFICATION: The U.S. Army has no remote ground based detection capability. This detector will give the U.S. Army an organic, continuously responsive, in-stride capability for on-route detection or avoidance of mines emplaced along lines of communication. The FY 97 funds will begin initial fielding of this capability.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. Appropriation/Budget Activity/No.		B. WEAPON MODEL/NAME			C. MANUFACTURER NAME			D. DATE	
	Other Procurement Army 3		Metallic Mine Detector, Vehicle Mounted (M80100)			PLANT CITY/STATE LOCATION			February 1995	
	Other Support Equipment		FY 94 QTY = 0			FY 96 QTY = 0			FY 97 QTY = 21	
WEAPON SYSTEM COST ELEMENT	IDENT CODE	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)
HARDWARE										
Metallic Mine Detector, Vehicle Mounted	B							273,000	21	5,733
SUBTOTAL										5,733
PRODUCTION SUPPORT										
PROJECT MGT ADMIN										155
PRODUCTION ENGINEERING										565
QUALITY ASSURANCE										102
ACCEPTANCE TESTING										75
DOCUMENTATION										125
SUBTOTAL										1,022
TOTAL P-1 LINE ITEM								321,667		6,755

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

February 1995

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army 3
Other Support Equipment

C. P-1 LINE ITEM NOMENCLATURE

Metallic Mine Detector, Vehicle Mounted

(M80100)

LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY (each)	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
Metallic Mine Detector, Vehicle Mounted FY 97	To Be Selected	SS/FP	CECOM	Mar 97	Feb 98	21	273,000.00	NO	YES	Sep 96

D. REMARKS

CODE "B" ITEM DESCRIPTION		DATE	REPORT CONTROL SYMBOL
Other Procurement Army 3		February 1995	DD-COMP (AR 1092)
ACTIVITY	P-1 ITEM NOMENCLATURE		
Other Support Equipment	Metallic Mine Detector, Vehicle Mounted (M80100)		
1. CURRENT DEVELOPMENT AND TEST STATUS			
a. DEV TEST & EVAL (DT&E) b. INITIAL OPER TEST & EVAL (IOT&E) c. OPER TEST & EVAL (OT&E) d. AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL	SCHEDULE DATE	
	PLAN/ACTUAL	CURRENT (1)	LAST REPORTED (2)
	PLAN/ACTUAL	Jun 96	REASON FOR DELAY (3)
		Jun 96	
	Jun 96		
	Sep 96		
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE SEP 96			
3. EQUIPMENT ITEM(S) TO BE REPLACED None			
4. EXTENT OF IMPROVEMENT OVER ITEM(S) TO BE REPLACED N/A			
5. DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PYR (4)
OGA (Govt Test and Qualification)			
In-House (Govt Management and Engineering)			
TOTAL RDT&E FUNDING			
	0.0	0.0	1990.0
6. REMARKS			

Reference entries on attachment to P-19. If additional space is required to adequately explain delay from previous date

FY 96 BUDGET PRODUCTION SCHEDULE		P-1 Item Nomenclature Metallic Mine Detector, Vehicle Mnt. (M80100)												DATE: February 1995												
ITEM MANUFACTURER/ PROCUREMENT YEAR		FISCAL YEAR 97				FISCAL YEAR 98				FISCAL YEAR 99				FISCAL YEAR 99												
		Calendar Year 97			Calendar Year 98			Calendar Year 99			Calendar Year 99			Calendar Year 99												
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Metallic Mine Detector, Vehicle Mounted To Be Selected FY97						1	1	2	2	3	3	3	3	3												

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

AIR CONDITIONERS, VARIOUS SIZE/CAPACITY

(MF9300)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
	6.1	3.0	3.2	1.5	1.6	1.5	1.5	1.0

DESCRIPTION: This budget line represents the Army's family of tactical Environmental Control Units (ECU's), AKA Air Conditioners. They range in size from 6,000 to 60,000 BTU, in a wide range of frequencies and currents, plus two system peculiar 18,000 BTU ECUs that support the Patriot Missile and the Standard Integrated Command Post Shelter. All ECUs are base mounted and electric motor driven. Air conditioners provide cooling, heating, dehumidification and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by electrical equipment itself. Air conditioners support 181 separate tactical major weapon systems. The majority of the weapon systems are command, control, and communications oriented. Other applications include Apache cockpit instruments cooling (Desert Storm), ground support equipment, satellite communications, intelligence gathering systems, Petroleum and Water Logistics laboratories, electronic shop sets, Test, Measurement and Diagnostic Equipment (TMDE), aviation shop sets, and topographic support sets.

JUSTIFICATION: Air conditioners are required as a component or separately authorized in support of fielded major tactical weapon systems. They are required to fill existing shortages or provide replacements for assets that are overage, non supportable and non repairable. Air conditioners are critical to the system they support. Without them, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, VARIOUS SIZE, CAPACITY

(MF9300)

WEAPON MODEL/SERIES/POPULAR NAME

ENVIRONMENTAL CONTROL UNIT (ECU)

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS																	
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST										
M811 Air Conditioner, 36,000 BTU C/H	A		947 6,142		479 2,995													254 1,520	
M899 Air Conditioner, 18,000 BTU C/V	A																		
M910 Air Conditioner, 9,000 BTU C/V	A																		
M918 Air Conditioner, 18,000 BTU C/H	A																		
TOTAL			6,142		2,995														1,520

P-1 SHOPPING LIST

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EXHIBIT P-5

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL (M81100)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	947	479		254				
COST (IN MILLIONS)	6.1	3.0		1.5				

DESCRIPTION: This air conditioner is a 36,000 BTU, compact horizontal, 3 phase, 50/60 HZ, 208V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, fire directional support systems, laboratories, radar, aircraft and electronic shop sets. Specific examples include the Decentralized Automatic Computer System (DAS-3), and the Corps/Theater ADP Service Center (CTASC-11).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 36,000 BTU COMPACT HORIZONTAL
(M81100)

WEAPON MODEL/SERIES/POPULAR NAME

ENVIRONMENTAL CONTROL UNIT (ECU)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
AIRTACS, REDLION, PA

TOTAL COST IN THOUSANDS OF DOLLARS

IDENT CODE	FY 94		FY 95		FY 96		FY 97	
	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
A	5,710	947 5,407	5,710	479 2,735			5,710	254 1,450
		665		219				48
		70		41				22
TOTAL	6,486	6,142	6,253	2,995			5,984	1,520

ITEM HARDWARE

GOVERNMENT ENGINEERING

WARRANTY

P-1 SHOPPING LIST

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT
 P-1 ITEM NOMENCLATURE
 AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL
 (M81100)

REPORTS CONTAIN SYMBOL DD-COMP(AR) 1092 DATE February 1995

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 90	AIRTACS, REDLION, PA	C/FP-REQ-3	TROSCOM	Jan 91	May 95	377	5,710	YES	NO	
FY 94	AIRTACS, REDLION, PA	C/FP-REQ-3(1)	ATCOM	Jun 94	Dec 95	947	5,710	YES	NO	
FY 95	AIRTACS, REDLION, PA	C/FP-REQ-3(2)	ATCOM	Nov 94	Apr 96	479	5,710	YES	NO	
FY 97	AIRTACS, REDLION, PA	C/FP-REQ-3(3)	ATCOM	Nov 96	Apr 97	254	5,710	YES	NO	

REMARKS FY 90 contract with three ordering periods beginning after acceptance of FAT.
 FAT accepted May 94.

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL

(M81100)

S E A R C V	U/M EA	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			L A T E R									
					OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC										
					CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96												
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	A	90		377					50	50	50												
1	A	94		947										173	200	200	174						
1	A	95		479														26	200	200	53		254
1	A	97		254																			
TOTALS					2057																		

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER	
		50	200	250	2	PRIOR 1 OCT	AFTER 1 OCT	1 OCT	
1	AIR TACS, REDLION, PA					6	18	24	FY 90 CONTRACT PASSED FAT MAY 94. DELIVERY SCHEDULE QUANTITY RENEGOTIATED FOR ALL ORDERING PERIODS AFTER BASE AWARD SCHEDULE SHOWS ACTUAL CONTRACT DELIVERY SCHEDULE FOR FY90 BUY.
						1	6	7	

UNCLASSIFIED

REPORTS CONTROL SYMBOL

PRODUCTION SCHEDULE

DD-COMP(AR) 1092

P-1 ITEM NOMENCLATURE

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL

(M81100)

S E R C V		U/ME A	FY	QTY	ACCEP TO 1 OCT	PRIOR 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99												
								CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99									
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	A	90	377	377																						
1	A	94	947	947																						
1	A	95	479	479																						
1	A	97	254				254	A			200	54														
TOTALS								1803	254																	

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS																
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT																	
		50	200	250																					
		INITIAL REORDER																							
1	AIRTACS, REDLION, PA				2			6	18	24															
								1	6	7															

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL (M89900)

DATE February 1995

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			50					
COST (IN MILLIONS)			0.3					

DESCRIPTION: This air conditioner is a 18,000 BTU, compact vertical, 3 phase, 60 HZ, 208V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment, where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. This air conditioner supports approximately twenty-five different major weapon systems including the base set test facility, electronic shop shelter, and a wide variety of communications, radio, air traffic control, and relay terminal control facilities.

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE
AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL
(M89900)

WEAPON MODEL/SERIES/POPULAR NAME
ENVIRONMENTAL CONTROL UNIT (ECU)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
KECO, FLORENCE, KY

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS											
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST				
ITEM HARDWARE	A					5,125	50						
GOVERNMENT ENGINEERING							256						
WARRANTY							25						
							5						
TOTAL						5,720	286						

P-1 SHOPPING LIST

UNCLASSIFIED

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P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU COMPACT VERTICAL (M89900)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 93	KECO, FLORENCE, KY	C/FP-REQ-3(1)	ATCOM	Feb 93	Apr 94	235	5,125	YES	NO	
FY 96	KECO, FLORENCE, KY	C/FP-REQ-3(2)	ATCOM	Nov 95	May 96	50	5,125	YES	NO	

REMARKS
Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.

P1 SHOPPING LIST

UNCLASSIFIED

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL

(MB9900)

S E A C	U / M E A	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			L A T E R																			
				94			95			96																						
				OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC																				
1	A	93	235									95										96										
1	A	96	50									95										96										
TOTALS			285																													

REMARKS:
Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.

MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME		TOTAL AFTER	
	MIN	MAX	1-8-5	MAX	PRIOR	AFTER	1 OCT	1 OCT
	1 KECO, FLORENCE, KY	50	200	250	2	6	18	24

INITIAL: _____ REORDER: _____

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment								
P-1 ITEM NOMENCLATURE AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL (M91000)								
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
			100					
COST (IN MILLIONS)			0.5					

DESCRIPTION: This air conditioner is a 9,000 BTU, compact vertical, 3 phase, 50/60 HZ, 208 V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include the troposcatter radio terminal (AN/TRC-170), the flight line test set (AN/TM-Q-31), and the surveillance information system (ANTAQ-1).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without the air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL
(M91000)

WEAPON MODEL/SERIES/POPULAR NAME
ENVIRONMENTAL CONTROL UNIT (ECU)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
TBS

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS					
		FY 94	FY 95	FY 96	FY 97	Quantity	Quantity
		UNIT COST	UNIT COST	UNIT COST	UNIT COST	TOTAL COST	TOTAL COST
		Quantity	Quantity	Quantity	Quantity	TOTAL COST	TOTAL COST
ITEM HARDWARE	A			4,200		100	
						420	
GOVERNMENT ENGINEERING						49	
WARRANTY						3	
TOTAL				4,720		472	

P-1 SHOPPING LIST

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UNCLASSIFIED

APPROPRIATION / BUDGET ACTIVITY P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

Other Support Equipment

AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL (M91000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 87	KECO	C/FP-REQ-3	TROSCOM	Jan 87	Jul 87	47	4,928	YES	NO	
FY 96	TBS	C/FP-REQ-3(1)	ATCOM	May 96	Oct 97	100	4,200	YES	NO	

REMARKS

Last buy on this item was in 1987. Configuration at that time was 3 Phase 50/60 Hertz. Configuration to be bought in FY 96 will include multiple power input technology.

P1 SHOPPING LIST

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL

(M91000)

S E R V I C E	U M E A	ACCEP T O P R I O R	B A L D U E	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 98														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	96	100																								
TOTALS				100																							

F A C T O R	M A N U F A C T U R E R S N A M E & L O C A T I O N	P R O D U C T I O N R A T E S		M O N T H S T O R E A C H M A X A F T E R D D A Y	P R O D U C T I O N L E A D T I M E		T O T A L A F T E R 1 O C T	R E M A R K S
		M I N	M A X		P R I O R 1 O C T	M A N U F A C T U R I N G T I M E		
		1	TBS	50	250	2	7	18
						6	7	

APPROPRIATION /BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE
 AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL (M91800)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			460					
COST (IN MILLIONS)			2.4					

DESCRIPTION: This air conditioner is a 18,000 BTU, compact horizontal, 3 phase, 60 HZ, 208 V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include joint stars radar ground station module, satellite communication and tracking system, Joint Tactical Distribution System (JTIDS), and the Position Location Reporting System (PLRS).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are coverage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU COMPACT HORIZONTAL

(M91800)

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

KECO, FLORENCE, KY

WEAPON MODEL/SERIES/POPULAR NAME

ENVIRONMENTAL CONTROL UNIT (ECU)

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS					
		FY 94	FY 95	FY 96	FY 97	Quantity	Quantity
		UNIT COST	UNIT COST	UNIT COST	UNIT COST	TOTAL COST	TOTAL COST
ITEM HARDWARE	A			5,115		460	
GOVERNMENT ENGINEERING						2,353	
WARRANTY						25	
						40	
TOTAL				5,257		2,418	

P-1 SHOPPING LIST

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EXHIBIT P-5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL (M91800)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 93	KECO, FLORENCE, KY	C/FP-REQ-3(1)	ATCOM	Sep 93	Jul 94	490	5,115	YES	NO	
FY 96	KECO, FLORENCE, KY	C/FP-REQ-3(3)	ATCOM	Nov 95	May 96	460	5,115	YES	NO	

REMARKS No buy during second ordering period of the three year requirements contract

Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL

(M91800)

S E R C	V FY	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			L A T E R											
					CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96														
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	A	93	490	490																					
1	A	96	460	460																					
TOTALS					950																				

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER	
		50	200	250		1 OCT	1 OCT	1 OCT	
1	KECO, FLORENCE, KY			2					Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.
					INITIAL	6	18	24	
					REORDER	1	7	8	

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE

STANDARD INTEGRATED CMD POST SYSTEM

(MX1010)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
COST (IN MILLIONS)	20.3							

DESCRIPTION:

This program includes the procurement of five command post variants each designed to accommodate the various nodes of the Army Tactical Command and Control System (ATCCS). These nodes include the Maneuver Control System (MCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Combat Service Support Control System (CSCSS) and the Forward Area Air Defense Command and Control System (FAADC2). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a light-weight, aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, mapboards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP capable of being mounted to the High Mobility Multipurpose Wheeled Vehicle (HMMWV) Shelter Carrier. The shelter will be integrated with an on-board engine/generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment racks to accommodate two ATCCS workstations and an operator seat.
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ATCCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts and stowage provisions. The converted M577 has been designated the M1068 Track CP.
- (4) Installation Kits for the 5-Ton Expandable Van (E-Van), consisting of racks for up to six ATCCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts and mapboards.
- (5) Installation Kits for the Soft-Top HMMWV consisting of equipment racks for up to two ATCCS workstations, communications patch panel, antenna mounts and operator work surface.

JUSTIFICATION: SICPS is the house for the Army Tactical Command and Control System. The current command and control facilities in the DOD inventory do not provide the flexibility, commonality and operational compatibility needed to direct and control in a fast-paced and highly active combat situation.

NOTE:

FY 95 and beyond are funded through OPA 2.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE:

Chem/Bio Protective Shelter

(R12300)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		29						
COST (IN MILLIONS)		7.0						

DESCRIPTION: The Chemical Biological Protected Shelter is a new system designed to replace the M51 Chemically Protected Shelter. It consists of a Lightweight Multipurpose Shelter mounted on a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) variant and a 300 square foot soft shelter. The system provides full NBC protection for patients and medical personnel. Hydraulic power from the dedicated HMMWV engine provides high reliability and low maintainability requirements for the system.

NOTE:

Program after FY95 funded under Procurement, Defense-Wide Budget Activity 3.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

Chem/Bio Protective Shelter
WEAPON MODEL/SERIES/POPULAR NAME
(R12300)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

SEE P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS											
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST				
HARDWARE	B			183,000	29 5,307								
ENGINEERING					600 (400)								
GOVT CONTRACTOR DATA					(200) 1,082								
TOTAL				241,000	6,989								

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

Chem/Bio Protective Shelter

(R12300)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
95	TBS	C/FP M-2(1)	ATCOM	Jun 95	Jul 96	30	183,000	YES	NO	

REMARKS

UNCLASSIFIED

CODE "B" ITEM DESCRIPTION

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army - OPA 3
Other Support Equipment

DATE: September 1994

P-1 ITEM NOMENCLATURE

Chem/Bio Protective Shelter

(R12300)

REPORT CONTROL

DD-COMP(AR)1092

CURRENT DEVELOPMENT AND TEST STATUS

CURRENT	LAST REPORTED DATE	SCHEDULE DATE	REASON FOR DELAY
JUN 93-SEP94	JUN 93-APR 94	LIMITED PROTOTYPES EXPANDED TEST	
Sep-94	JAN 94 - APR 94	SCHEDULE LOGISTICS ISSUES AFFECTING	
JAN-FEB 96	JAN 94-APR 94	UNRESOLVED LOGISTICS ISSUES	
Sep-94	Jun-94	SLIPPAGE OF DT.	

ESTIMATED DATE OF APPROVAL FOR SERVICE USE: DEC 94 TC-LPU SEP 96 TC STD

EQUIPMENT ITEM(S) TO BE REPLACED:

SHELTER SYSTEM, COLLECTIVE PROTECTION, CHEMICAL/BIOLOGICAL

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Replaces M51CB Shelter

1) INCREASED MOBILITY 2) REDUCED SYSTEM WEIGHT 3) INCREASED FLOOR SPACE

DEVELOPMENT CONTRACT INFORMATION

RDT&E FUNDING PROFILE (\$ IN MILLIONS)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
3ICHNER SHELTER SYSTEMS	DALLASTOWN, PA	HARDWALL SHELTER	3.80	0.276	0.575	0.25	
3HEMFAB	BUFFALO NY	SOFTWALL SHELTER	1.07				
TOTAL RDT&E FUNDING			4.87	0.276	0.575	0.25	

CLASSIFIED

REPORTS CONTAINING SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

SPACE HEATER

(M19600)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	*128	564	290	485			100	150
COST (IN MILLIONS)	0.7	2.8	1.4	2.4			0.5	0.7

DESCRIPTION: The Army Space Heater (ASH) is electrically powered, requiring maximum 3 kilowatt of external power. It is thermostatically controlled using either diesel or jet petroleum-8 fuels to produce heat. The ASH is mobile and will deliver clean, heated or vented air through sealed detachable, flexible ducts. It is suitable for arctic use. The main mission of this heater is to heat maintenance tents in cold environments so that soldiers can safely repair a wide variety of equipment such as trucks, tanks, helicopters, Hawk, Patriot, and Multiple Launch Rocket System. Additionally, it supports field artillery and medical units.

JUSTIFICATION: This heater is a non developmental item that will replace the current 250,000 BTU gasoline engine driven (GED) heater. It will correct the deficiencies found in the 250,000 BTU GED heater, specifically gasoline will be replaced by diesel fuel, meeting the DOD regulations to have one fuel on the battlefield. It will be safer for the personnel operating equipment in enclosed areas because it reduces carbon monoxide emissions. The ASH is a stand alone item that supports the function of providing heat for maintenance, operations and comfort.

*Funded from FY 94 Items Less Than \$2.0M CSS-EQ

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE
SPACE HEATER

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
ENGINEER AIR SYSTEMS, INC.
ST. LOUIS, MO.

WEAPON MODEL/SERIES/POPULAR NAME
MODEL H-120, ARMY SPACE HEATER (ASH)

(M19600)

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Item Hardware	A	4,906	128 628	4,904	564 2,766	4,852	290 1,407	4,911	485 2,382
			42		46		33		28
Government Engineering									
TOTAL		5,234	670	4,986	2,812	4,966	1,440	4,969	2,410

Note: FY 94 Program on the Less Than \$2.0M CSS-EQ

P-1 SHOPPING LIST

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EXHIBIT P-5

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

SPACE HEATER

(M19600)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Sep 92	Dec 94	223	4,906	YES	NO	
FY 94	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Aug 94	Feb 95	128	4,906	YES	NO	
FY 95	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Mar 95	Jun 95	564	4,904	YES	NO	
FY 96	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	290	4,852	YES	NO	
FY 97	Engineer Air Sys	C/FP-REQ3(3)	ATCOM	Dec 96	Mar 97	485	4,911	YES	NO	

REMARKS Three year requirements type contract. Base year expires March 1995, second ordering period expires March 1996, and third ordering period expires March 1997.

FY 92 & 94 programs are reflected on Items Less Than \$2.0M CSS-EQ.

P1 SHOPPING LIST

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EXHIBIT P-5A

UNCLASSIFIED

REPORTS CONTROL SYMBOL

PRODUCTION SCHEDULE

DATE February 1995

P 1 ITEM NOMENCLATURE

APPROPRIATION / BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

SPACE HEATER

(M19600)

FISCAL YEAR	97												98												99											
	CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR											
S E R	U/M EA	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	REMARKS							
1 A	92	223	223	485																																
1 A	94	128	128																																	
1 A	95	564	564																																	
1 A	96	290	290																																	
1 A	97	485	485																																	
1 IL	92	99	99																																	
1 MC	92	17	17																																	
1 IL	93	10	10																																	
1 AF	94	40	40																																	
TOTALS		1371	485										99	99	99	99	89																			

FISCAL YEAR	97												98												99											
	CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR											
S E R	U/M EA	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	REMARKS							
TOTALS		1371	485										99	99	99	99	89																			

MANUFACTURERS NAME & LOCATION	MIN	RATES		MAX	MONTHS TO REACH MAX AFTER D DAY	ADMIN LEAD TIME	MANUFACTURING TIME		TOTAL AFTER 1 OCT	INITIAL	REORDER
		1-8-5	99				PRIOR 1 OCT	AFTER 1 OCT			
1 Engineer Air Systems, St. Louis, MO	50	99	150	4		6	14	20	6		

DD Form 2445, JUL 87

P-1 SHOPPING LIST

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 1995

P-1 ITEM NOMENCLATURE:

APPROPRIATION/BUDGET ACTIVITY:

OTHER PROCUREMENT ARMY

ACTIVITY 3: OTHER SUPPORT EQUIPMENT

SOLDIER ENHANCEMENT

MA6800

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	\$9.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

DESCRIPTION:

The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their flexibility, mobility, lethality, and survivability. Currently the only item that is being procured under the Soldier Enhancement line is Survival Armor Recovery Vest Insert and Packets (SARVIP). SARVIP is a fire retardant survival vest for the Army aviators which incorporates an extraction harness for rescuing downed aviators, a lift preserver for in-water survival, and .50 caliber armor piercing (AP) body armor for pilots and co-pilots.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL
 (DD-COMPIAR) 1092
 APPROPRIATION/BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		2	2	2	2	1	1	2
COST (IN MILLIONS)		10.7	12.3	12.1	12.3	6.9	6.9	13.3

DESCRIPTION: Force Provider is a system which contains in one package, all the material necessary to provide quality food, billeting, health and hygiene services for a battalion sized force. Each system is configured as a stand alone module capable of housing 550 soldiers. A module consists of ten basic subsystems: billeting, laundry, latrine, shower, fuel/water/power distribution, waste management, food service, transportation aids, system support package, and soldier support services. Force Provider is transportable by rail, sea, roadway, and C-130, C-141, or C-5A aircraft.

JUSTIFICATION: Force Provider provides the capability to house, feed and support soldiers and civilians in a short period of time during national emergencies. The Force Provider concept originated in the immediate aftermath of Operations Desert Shield/Storm as a Chief of Staff of the Army initiative to address perceived shortcomings in field service support. The Force Provider concept was reinforced during the aftermath of Hurricane Andrew with the mission to provide humanitarian aid. Force Provider provides for the rest and refit of the combat soldier; thereby, improving the soldiers "Quality of Life" in the field. A total of six stand-alone modules will give the Army the capability to provide services for a contingency corps brigade size force of 3,300 soldiers.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
 (D-COMPIAR) 1082
 APPROPRIATION /BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

See P-5A

WEAPON MODEL/SERIES/POPULAR NAME

Weapon System Cost Elements

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST			
HARDWARE COST, FP MODULE	A		6				4			4
TEMPER TENT, TYPE I	A		148	24,667			100	25,000		101
TEMPER TENT, TYPE IV	A		102				102			102
TEMPER TENT, TYPE VII	A		1,196	11,725			1,209	11,853		1,223
TEMPER TENT, TYPE VIII	A		8	3,250			8	3,250		8
TEMPER TENT, TYPE VIII	A		26				26			27
TEMPER TENT, TYPE XV	A		2	29,500			2	30,000		2
AIR CONDITIONERS	A		59	16,722			60	17,000		60
DISE 100 AMP, R454	A		18	4,250			18	4,297		18
DISE 40 AMP, R453	A		301	5,569			306	5,625		306
DISE UTILITY KIT, R628	A		128	6,000			128	6,125		128
FIELD KITCHEN, M869	A		544	2,250			550	2,267		556
REFRIGERATOR, MECHANICAL, MTD	A		72	9,750			72	9,750		72
REFRIGERATOR, PANEL TYPE	A		401	5,750			405	5,750		410
			8	10,000			8	10,000		8
			48				49			49
			60				60			60
			135				136			138
			4				4			4
			39				39			40
			4				4			4
			23				23			24
			4				4			4
			40				40			41
PAGE TOTAL			2,960				2,943			2,975

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

D-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

See P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST	Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST		
350 GPM PUMP, DED	A			12,333	6	12,500	6	12,667	6
FORWARD AREA REFUELING SYS, M640	A			8,000	4	8,000	4	8,250	4
TANK ASSEMBLY, 10K GAL, M649	A			7,000	8	7,125	8	7,125	8
TANK, 20K GAL, R214	A			9,500	6	9,667	6	9,667	6
TANK, FABRIC, WATER, 3K GAL	A			2,375	8	2,375	8	2,375	8
TANK ASSEMBLY, 50K GAL, M120	A			14,250	19	14,500	19	14,500	19
HYPOCHLORINATION UNIT, M155	A			14,250	4	14,500	4	14,500	4
WATER CHILLER, M157	A			10,250	57	10,375	58	10,500	58
PUMP UNIT, 125 GPM	A			1,667	8	1,667	8	1,667	8
TANK, FABRIC, COLL, 3K GAL	A			3,000	2	3,000	2	3,000	2
DRUM, 500 GAL, M126	A			2,083	6	2,125	6	2,125	6
KIT, 350 GPM PUMP	A			1,500	10	1,500	10	1,500	10
KIT, FP FACILITIES	A			857	2	857	2	857	2
PAGE TOTAL					515		522		525

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
 D-COMPIAR 1092
 APPROPRIATION/BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

See P-5A

WEAPON MODEL/SERIES/POPULAR NAME

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST			
KIT, 20K GAL TANK W-W	A			4,000	2	4,000	2	4,000	2	
KIT, 125 GPM PUMP W-W	A			6,500	2	6,500	2	6,500	2	
KIT, ACCESSORY W-W	A			5,000	13	6,500	13	6,500	13	
KIT, WATER	A			5,000	2	5,000	2	5,000	2	
KIT, 50K GAL TANK	A			24,000	10	5,000	10	5,000	10	
KIT, F.P. FACILITIES	A			6,500	2	24,500	2	24,500	2	
KIT, F.P. FACILITIES	A			2,313	48	6,500	49	6,500	49	
KIT, LAUNDRY	A			875	2	2,313	2	2,375	2	
KIT, AUX 350 PUMP	A			1,500	14	875	14	875	14	
KIT, LARGE NOZZLE	A			3,500	2	1,500	2	1,500	2	
KIT, SMALL NOZZLE	A			1,000	3	3,500	3	3,500	3	
KIT, TANK INLET	A			2,750	2	2,750	2	2,750	2	
LAUNDRY UNIT, TRAILER MTD, M876	A			2,000	7	1,000	7	1,000	7	
				42,000	8	2,750	8	2,750	8	
				2,000	8	2,000	8	2,000	8	
				42,000	4	42,500	4	43,000	4	
					4		4		4	
					168		170		172	
PAGE TOTAL					355		358		361	

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
D-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
FORCE PROVIDER

(M80200)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
See P-5A

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Quantity TOTAL COST
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	
GENERATOR SETS, 60KW/60HZ	A			18,400	50	18,600	50	18,820	50	941
TRAILERS, AN/MJO-41/PU-805	A			7,000	50	7,100	50	7,200	50	360
FLOODLIGHT SET, TRAILER MTD	A			10,000	20	10,100	20	10,200	20	204
LATRINE	A			35,000	4	35,500	4	35,750	4	143
SHOWER	A			35,500	4	36,000	4	36,250	4	145
SHAVE STAND	A			10,000	40	10,000	40	10,250	41	41
SECONDARY ITEMS					2,527		2,806		2,836	
PAGE TOTAL					4,319		4,619		4,670	

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REPORTS CONTROL SYMBOL

D-COMP(ARI) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

See P-5A

WEAPON MODEL/SERIES/POPULAR NAME

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST												
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST		FY 97 UNIT COST	Quantity TOTAL COST										
ENGINEERING SERVICES																				
GOVERNMENT CONTRACTOR																				
REPOT ASSEMBLY																				
MODULE ASSEMBLY																				
PU-805 ASSEMBLY, M509																				
AN/MJQ-41 ASSEMBLY, M511																				
TESTING COSTS																				
PROVISIONING AND TECHNICAL MANUALS																				
QUALITY ASSURANCE																				
PAGE TOTAL																				
TOTAL																				

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REPORTS CONTROL SYMBOL: D-COMPIARI 1092
 APPROPRIATION/BUDGET ACTIVITY: BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT
 DATE: February 1995

Other Procurement: Army 3
 Other Support Equipment
 P-1 ITEM NOMENCLATURE
 FORCE PROVIDER
 (M80200)

POST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE IV/DLA	NOTE 1		6	24,667			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE IV/DLA	NOTE 1		102	11,725			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE VII/DLA	NOTE 1		8	3,250			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE VIII/DLA	NOTE 1		2	29,500			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE XV/DLA	NOTE 1		18	16,722			
	TBS	C/FP	AIR CONDITIONERS/ATCOM	FEB 95		128	4,250			
	Fed. Prison Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	NOTE 2		72	5,569			
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	NOTE 2		8	6,000			
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	NOTE 2		60	2,250			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 95		4	9,750			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 95		4	5,750			
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 95		4	10,000			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	AUG 95		6	12,333			
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	FEB 95		4	8,000			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	AUG 95		8	7,000			
	TBS	C/FP	TANK, 20K GAL/ATCOM	AUG 95		6	9,500			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 95		8	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	AUG 95		4	14,250			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	AUG 95		4	14,250			
	TBS	C/FP	WATER CHILLER/ATCOM	JUL 95		8	10,250			
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 95		6	1,667			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	JUN 95		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	MAY 95		24	2,083			

REMARKS: This is a depot assembly program at Sierra Army Depot, Hertlong, CA

NOTE 1: Awarded Nov 94.

NOTE 2: Awarded Dec 94.

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

D-COMPIARI 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

OST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 95	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	MAR 95		2	1,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		14	857			
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	MAR 95		2	4,000			
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	MAR 95		2	6,500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	MAR 95		2	5,000			
	TBS	C/FP	KIT, WATER/ATCOM	MAR 95		2	24,000			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	MAR 95		2	6,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	2,313			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	875			
	TBS	C/FP	KIT, LAUNDRY/ATCOM	MAR 95		2	1,500			
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	MAR 95		2	3,500			
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	MAR 95		8	1,000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	MAR 95		8	2,750			
	TBS	C/FP	KIT, TANK INLET/ATCOM	MAR 95		2	2,000			
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	JUN 95		4	42,000			
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 95		50	18,400			
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/ATCOM	JUN 95		50	7,000			
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 95		20	10,000			
	TBS	MIPR	LATRINE/AIR FORCE	JAN 95		4	35,000			
	TBS	MIPR	SHOWER/AIRFORCE	JAN 95		4	35,500			
	TBS	MIPR	SHAVE STAND/AIR FORCE	JAN 95		4	10,000			

EMARKS

This is a depot assembly program at Sierra Army Depot, Herlong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

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REPORTS CONTROL SYMBOL

(D-COMPIAR) 1092

(APPROPRIATION /BUDGET ACTIVITY

)other Procurement: Army 3

)ther Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY96	TBS	Reqn	TEMPER TENT, TYPE I/DLA	NOV 95		4	25,000			
	TBS	Reqn	TEMPER TENT, TYPE IV/DLA	NOV 95		102	11,853			
	TBS	Reqn	TEMPER TENT, TYPE VII/DLA	NOV 95		8	3,250			
	TBS	Reqn	TEMPER TENT, TYPE VIII/DLA	NOV 95		2	30,000			
	TBS	Reqn	TEMPER TENT, TYPE XV/DLA	NOV 95		18	17,000			
	TBS	C/FP	AIR CONDITIONERS/ATCOM	NOV 95		128	4,297			
	Fed. Prison, Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 95		72	5,625			
	Fed. Prison, Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 95		8	6,125			
	Fed. Prison, Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 95		60	2,267			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 96		4	9,750			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 96		4	5,750			
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 96		4	10,000			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 96		6	12,500			
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	FEB 96		4	8,000			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 96		8	7,125			
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 96		6	9,667			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 96		8	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 96		4	14,500			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 96		4	14,500			
	TBS	C/FP	WATER CHILLER/ATCOM	FEB 96		8	10,375			
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 96		6	1,667			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 96		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	FEB 96		24	2,125			

REMARKS

This is a depot assembly program at Sierra Army Depot, Herlong, CA

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REPORTS CONTROL SYMBOL: UNCLASSIFIED
 D-COMPIARI 1092
 APPROPRIATION /BUDGET ACTIVITY: BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT
 DATE February 1995

Other Procurement: Army 3
 Other Support Equipment
 P-1 ITEM NOMENCLATURE
 FORCE PROVIDER
 (M80200)

POST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	NOV 95		2	1,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		14	857			
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	NOV 95		2	4,000			
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	NOV 95		2	6,500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 95		2	5,000			
	TBS	C/FP	KIT, WATER/ATCOM	NOV 95		2	24,500			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	NOV 95		2	6,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	2,313			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	875			
	TBS	C/FP	KIT, LAUNDRY/ATCOM	NOV 95		2	1,500			
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 95		2	3,500			
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	NOV 95		8	1,000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	NOV 95		8	2,750			
	TBS	C/FP	KIT, TANK INLET/ATCOM	NOV 95		2	2,000			
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	FEB 96		4	42,500			
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 96		50	18,600			
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	NOV 95		50	7,100			
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 96		20	10,100			
	TBS	MIPR	LATRINE/AIR FORCE	NOV 95		4	35,500			
	TBS	MIPR	SHOWER/AIRFORCE	NOV 95		4	36,000			
	TBS	MIPR	SHAVE STAND/AIR FORCE	NOV 95		4	10,000			

EMARKS
 This is a depot assembly program at Sierra Army Depot, Herlong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

UNCLASSIFIED

REPORTS CONTROL SYMBOL: D-COMPI/ARJ 1092
 APPROPRIATION /BUDGET ACTIVITY: P-1 ITEM NOMENCLATURE
 DATE: February 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

FORCE PROVIDER

Other Procurement: Army 3
 Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97	TBS	Reqn	TEMPER TENT, TYPE I/DLA	NOV 96		4	25,250			
	TBS	Reqn	TEMPER TENT, TYPE IV/DLA	NOV 96		102	11,990			
	TBS	Reqn	TEMPER TENT, TYPE VII/DLA	NOV 96		8	3,375			
	TBS	Reqn	TEMPER TENT, TYPE VIII/DLA	NOV 96		2	30,000			
	TBS	Reqn	TEMPER TENT, TYPE XV/DLA	NOV 96		18	17,000			
	TBS	C/FP	AIR CONDITIONERS/ATCOM	NOV 96		128	4,344			
	Fed. Prison Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 96		72	5,694			
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 96		8	6,125			
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 96		60	2,300			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 97		4	10,000			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 97		4	6,000			
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 97		4	10,250			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 97		6	12,667			
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	FEB 97		4	8,250			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 97		8	7,125			
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 97		6	9,667			
	TBS	C/FP	TANK, FAB. WATER, 3K GAL/ATCOM	FEB 97		8	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 97		4	14,500			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 97		4	14,500			
	TBS	C/FP	WATER CHILLER/ATCOM	FEB 97		8	10,500			
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 97		6	1,667			
	TBS	C/FP	TANK, FAB. COLL, 3K GAL/ATCOM	FEB 97		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	FEB 97		24	2,125			

REMARKS

This is a depot assembly program at Sierra Army Depot, Herlong, CA

P1 SHOPPING LIST

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UNCLASSIFIED

EXHIBIT P-5A

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE
FORCE PROVIDER

REPORTS CONTROL SYMBOL
D-COM(AR) 1092
APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

POST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 97	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	NOV 96		2	1,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		14	857			
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	NOV 96		2	4,000			
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	NOV 96		2	6,500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 96		2	5,000			
	TBS	C/FP	KIT, WATER/ATCOM	NOV 96		2	24,500			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	NOV 96		2	6,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		16	2,375			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		16	875			
	TBS	C/FP	KIT, LAUNDRY/ATCOM	NOV 96		2	1,500			
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 96		2	3,500			
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	NOV 96		8	1,000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	NOV 96		8	2,750			
	TBS	C/FP	KIT, TANK INLET/ATCOM	NOV 96		2	2,000			
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	FEB 97		4	43,000			
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 97		50	18,820			
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/ATCOM	NOV 96		50	7,200			
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 97		20	10,200			
	TBS	MIPR	LATRINE/AIR FORCE	NOV 96		4	35,750			
	TBS	MIPR	SHOWER/AIRFORCE	NOV 96		4	36,250			
	TBS	MIPR	SHAVE STAND/AIR FORCE	NOV 96		4	10,250			

REMARKS
This is a depot assembly program at Sierra Army Depot, Hertlong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

CLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION EQUIPMENT

(MA5800)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)		2.2	2.6	5.5			0.2	0.2

DESCRIPTION: This budget line represents Army tactical refrigeration equipment. It consists of refrigeration units including the 5,000 and 10,000 BTU electric motor driven (EMD), and diesel engine driven (DED) units and the 8' X 8' X 20' refrigerated container. These units are designed to fit into the 150 cu ft pre-formed refrigerated box, and the 600, 1200, 1800, and 4,000 cu ft pre-fabricated refrigeration boxes. This equipment is used to store a variety of perishable items including food, drugs, medical supplies, and temperature sensitive equipment such as batteries and photographic film.

JUSTIFICATION: The FY 96 / 97 programs are required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION EQUIPMENT

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME

REFRIGERATION EQUIPMENT ROLL LINE

(MA5800)

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
SSN M919, Refrigerated Container	A		84 2,166						191 5,469
SSN M860, Refrigeration Unit, 5,000 BTU, DED	A					97 833			
SSN M849, Refrigeration Unit, 10,000 BTU, DED	A					151 1,357			
SSN M858, Refrigeration Unit, 5,000 BTU, EMD	A					65 372			
TOTAL			2,166			2,562			5,469

P-1 SHOPPING LIST

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UNCLASSIFIED

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EXHIBIT P-5

CLASSIFIED

REPORTS CONTINUED SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE

REFRIGERATED CONTAINER 8' X 8' X 20'
(M91900)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)		2.2		5.5				

DESCRIPTION: This item is a Military Standard 20 foot Refrigerated Container equipped with a 9,000 BTU (Government Furnished Equipment (GFE)) per hour electric motor driven refrigeration unit powered by a self-contained GFE 10 KW Diesel Engine Driven (DED) Generator Set. This refrigerated container provides controlled temperature storage for food (produce, dairy products, meats and liquids), medical supplies, drugs, and other temperature sensitive items such as batteries and photographic film.

JUSTIFICATION: The Refrigerated Container is an integral part of Perishable Subsistence Platoons (PSP). The FY95/97 programs replace a portion of the overaged containers currently used in the PSP.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

REFRIGERATION EQUIPMENT

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

SEE P5-A

WEAPON MODEL/SERIES/POPULAR NAME

REFRIGERATED CONTAINER 8' X 8' X 20'

(M91900)

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST

Item Hardware

Government Engineering

Documentation

First Article Testing

A				24,690	84 2,074			27,466	191 5,246
					92				75 60 88
TOTAL					2,166				5,469

P-1 SHOPPING LIST

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EXHIBIT P-5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT
 P-1 ITEM NOMENCLATURE
 REFRIGERATED CONTAINER 8' X 8' X 20'
 (M91900)

REPORTS CONTROL NUMBER: DD-COMP(AR) 1092
 DATE: February 1995

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 95	SEA BOX INC, S. Kearny, N. J.	C/FP-REQ3(1)	ATCOM	Apr 95	Jul 95	84	24,690	YES	NO	
FY 97	TBS	C/FP-Option	ATCOM	Feb 97	Feb 98	191	27,466	YES	NO	

REMARKS The FY 95 program will be added, via an option clause, to a current FY 93 contract for DEPMEDS Refrigerated Containers. The FY 97 program will be a new buy using Invitation for Bid with an option.

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

REFRIGERATED CONTAINER 8' X 8' X 20'

(M91900)

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

S E R V	UM EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			L A T E R
				94	95	96	96	97	97				
1	A	84	84	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	191
1	A	84	84	84									
2	A	191	191	191									
TOTALS				275									191

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME		REMARKS: FY 95 program is to be added via option clause to a current DEPMEDS contract. Award of contract is delayed pending approval of FAT expected Mar 95. The FY 97 program will be a new buy using IFB with option clause.
		MIN	1-8-5	MAX	REACH MAX AFTER D DAY	ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT	
1	SEA BOX INC., S. KEARNY, N. J.	20	50	75	5	4	13	17	
2	TBS	20	50	75	5	2	4	6	
						INITIAL	REORDER		

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

REFRIGERATED CONTAINER 8' X 8' X 20'

(M91900)

S E R	U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 00			L A T E R													
				CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			CALENDAR YEAR 00																
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	A	95	84																										
2	A	97	191		25	50	50	50	16																				
TOTALS				84	191																								

F A C	MANUFACTURERS NAME & LOCATION	MONTHS TO REACH MAX AFTER D DAY	PRODUCTION RATES			REORDER	INITIAL	PRODUCTION LEAD TIME			REMARKS			
			MIN					MAX				ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER
			1	8-5	5			1	8-5	5				
1	SEA BOX INC., S. KEARNY, N. J.	5	20	50	75	20	50	75	4	13	17			
2	TBS	5	20	50	75	20	50	75	2	4	6			

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P-1 SHOPPING LIST

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EXHIBIT P-21

UNCLASSIFIED

REPORTS COMBINATION SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

Other Support Equipment

REFRIGERATION UNIT, 5,000 BTU, DED

(M86000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			0.8				0.2	0.2

DESCRIPTION: The Refrigeration Unit, 5,000 BTU Diesel Engine Driven (DED) is a self-contained package consisting of condenser and evaporator sections designed to fit into the wall opening of the 150 cubic foot pre-formed refrigerated boxes. The unit is self powered using an internal diesel fueled engine. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.

JUSTIFICATION: The FY96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
REFRIGERATION EQUIPMENT

WEAPON MODEL/SERIES/POPULAR NAME

REFRIGERATION UNIT, 5,000 BTU, DED
(M86000)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
SEE P5-A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Item Hardware	A								
Government Engineering						8,278	97	803	
								30	
TOTAL									833

P-1 SHOPPING LIST

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EX P-5

UNCLASSIFIED

REPORTS CONTAIN SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 5,000 BTU, DED

(M86000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	KECO INC, Florence, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Apr 96	115	8,278	YES	NO	
FY 93	KECO INC, Florence, KY	C/FP-REQ3(1)	ATCOM	Feb 94	May 96	76	8,278	YES	NO	
FY 96	KECO INC, Florence, KY	C/FP-REQ3(2)	ATCOM	Dec 95	May 96	97	8,278	YES	NO	

REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ). Unit cost for FY 96 was extracted from ordering period of current contract.

P1 SHOPPING LIST

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 5,000 BTU, DED

(M86000)

S F A C	S E R V	U M E A	Q T Y	A C C E P T O 1 O C T	P R I O R T O 1 O C T	B A L D U E A S O F 1 O C T	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	A	92	115			115													
1	A	93	76			76													
1	A	96	97			97													
1	AF	92	2			2													
TOTALS							290												

F A C	M A N U F A C T U R E R S N A M E & L O C A T I O N	P R O D U C T I O N R A T E S			P R O D U C T I O N L E A D T I M E			M O N T H S T O R E A C H M A X A F T E R D A Y
		MIN	1-8-5	MAX	P R I O R 1 O C T	A F T E R 1 O C T	T O T A L	
1	KECO INC, FLORENCE, KY	35	100	140	5	27	32	6
					1	2	8	

REMARKS Contract award was delayed due to requirement to update Mil Specs. to replace all ozone depleting substances and due to requirement for a complete technical evaluation. Prior court ruling required ATCOM to request and evaluate additional technical information from bidders. Delivery delay due to completion of FAT.

CLASSIFIED

REPORTS CONTAIN SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 10,000 BTU, DED

(M84900)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			151					
COST (IN MILLIONS)			1.4					

DESCRIPTION: A self-contained, military specification unit consisting of a condenser and evaporation section, designed to fit into the wall opening of the 600, 1200, 1800, and 4000 cu ft pre-fabricated refrigerated boxes. This unit is self powered by a 12 volt, air cooled diesel engine with a refrigerant that will comply with EPA and DOD directive for replacement of chlorofluorocarbons (CFC) R12 in all refrigeration equipment. It provides temperature controlled storage for items such as food, drugs and medical supplies, batteries and photographic film.

JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R - 12 Refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
REFRIGERATION EQUIPMENT

WEAPON MODEL/SERIES/POPULAR NAME
REFRIGERATION UNIT, 10,000 BTU, DED
(M84900)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
KECO, INC
FLORENCE, KY

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
		TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST
Item Hardware	A					8,642	151		
Government Engineering							1,305		
							52		
TOTAL									1,357

P-1 SHOPPING LIST

UNCLASSIFIED

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ITEM NO 128

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EXHIBIT P-5

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 10,000 BTU, DED (MB4900)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	5	8,642	YES	NO	
FY 93	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	82	8,642	YES	NO	
FY 96	KECO, INC FLORENCE, KY	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	151	8,642	YES	NO	

REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ).

UNCLASSIFIED

REPORTS CONTROL SYMBOL

ID-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 10,000 BTU, DED

(M84900)

S E R V	U/EA FY QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96														
				CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP									
1	A 92	5	5																					
1	A 93	82	82																					
1	A 96	151	151																					
TOTALS				238																				

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX		PRODUCTION LEAD TIME		REMARKS:
		MIN	1-8-5	MAX	AFTER D DAY	ADMIN LEAD TIME	MANUFACTURING TIME		
		35	100	140	6	PRIOR 1 OCT	AFTER 1 OCT	TOTAL AFTER 1 OCT	
1	KECO INC., FLORENCE, KY								Contract award was delayed due to requirement to update Mil Specs. to replace all ozone depleting substances and due to requirement for a complete technical evaluation. Prior court ruling required ATCOM to request and evaluate additional technical information from bidders. Procurement LT 31 mos. includes extensive First Article Test on new refrigerant and long leadtime components.
							INITIAL	REORDER	
							5	2	
							26	4	
							31	6	

CLASSIFIED

REPORTS CONTAIN CLASSIFICATION SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 5,000 BTU, EMD

(M85800)

DATE February 1995

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			0.4					

DESCRIPTION: This refrigeration unit is a self-contained package unit consisting of a condenser and evaporator sections designed to fit into the wall opening of the 150 cu ft pre-formed refrigerated boxes. This unit requires power from a military generator or local electrical power to operate. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.

JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R - 12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION EQUIPMENT

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
KECO, INC
FLORENCE, KY

REFRIGERATION UNIT, 5,000 BTU, EMD

(M85800)

TOTAL COST IN THOUSANDS OF DOLLARS

IDENT CODE	FY 94		FY 95		FY 96		FY 97	
	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
A					5,400	65		
						351		
						21		
TOTAL						372		

Item Hardware

Engineering Government

P-1 SHOPPING LIST

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EX P-5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 5,000 BTU, EMD

(M85800)

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	KECO INC FLORENCE, KY	C/FR-REQ3(1)	ATCOM	Feb 94	Apr 96	8	5,376	YES	NO	
FY 93	KECO INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Apr 96	3	5,376	YES	NO	
FY 96	KECO INC FLORENCE, KY	C/FP-REQ3(2)	ATCOM	Dec 95	Apr 96	65	5,400	YES	NO	

REMARKS: FY 92 / 93 programs were funded under items less than \$2.0M (CSS-EQ).

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
REFRIGERATION UNIT, 5,000 BTU, EMD

(M85800)

S E R C V	F Y	U / M E A	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96						
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	A	92	8	8	8													
1	A	93	3	3	3	A												
1	A	96	65	65	65	A												
1	N	89	2	2	2													
1	N	93	7	7	7	A												
1	N	94	3	3	3	A												
1	IL	94	20	20	20	A												
TOTALS						108												

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		TOTAL AFTER 1 OCT	REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME		
						PRIOR 1 OCT	AFTER 1 OCT		
1	KECO INC, FLORENCE, KY	35	100	140	6				Contract award was delayed due to requirement to update Mil Specs. to replace all ozone depleting substances and due to requirement for a complete technical evaluation. Prior court ruling required ATCOM to request and evaluate additional technical information from bidders. Procurement LT 32 mos. Includes extensive First Article Test on new refrigerant and long leadtime components.
						5	27	32	
						2	4	6	

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (CSS-EQ)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
	2.8	4.4	2.2	2.8	2.2	2.4	2.9	4.9
COST (IN MILLIONS)								

(ML5325)

DESCRIPTION: This program covers combat support equipment which has individual procurements less than \$2 million annually. All acquisitions made with these funds are designated to support vital high priority requirements for combat service equipment. The types of items procured on this budget line include heaters, non-breathable air compressors, aerial delivery equipment, and food sanitation equipment. These types of systems and equipment support the combat readiness and quality of life of every soldier in the Army, every day.

JUSTIFICATION: These programs fill critical field user shortages and replace overaged, non-supportable and non-reparable assets. This type of equipment is subject to high wash out rates due to its extensive, daily use and low unit price. Consequently, this equipment becomes uneconomical repairable sooner than more expensive end items. This budget line provides the flexibility to meet critical, "short fuse" requirements for combat support equipment. The FY 96/97 programs support primarily acquisition of the Food Sanitation Center and the Containerized Shower System. The Food Sanitation Center programs are in direct support of Army Field Feeding - Future.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (CSS-EQ)

(ML5325)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

COST (IN MILLIONS)	IDENT CODE	FY 94			FY 95			FY 96			FY 97	
		UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity
	A		128	2,286	105							
	A	5,234	670	1,455	240							
	A	19	13		167							
	A	9,154	119	8,714	175							
	A	857	102		1,525							
	A	2,000	204									
	A		139	12,875	16							
	A			12,840	206							
	A				150							
	A				1,926							
	A	20,000	80									
	A		1,600									
	A		50									
	A			1,403	149							
	A			170,000	209							
	A			17,800	1							
	A				170							
	A				5							
	A				89							
TOTAL			2,782		4,608							

P-1 SHOPPING LIST

UNCLASSIFIED

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(ARI) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (CSS-EO)
FY 95

(ML5325)

COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M005, Compressor, 5 cfm	4,451	3,630	3,735	2,286	105	240	FP	C	Jun-95	
2	M095, Compressor, 5 cfm	7,784	6,720	6,887	1,455	167	243	FP	C	Jun-95	
3	M284, Boat Inflatable	384	160	335	8,714	175	1,525	FP	C	Aug-95	
4	M665, Food Sanitation Center	2,148	854	870	12,875	16	206	FP	C	Jul-95	
5	M721, Light Set, Trailer Mounted	3,647	2,484	2,634	12,840	150	1,926	FP	C	Mar-95	
6	R174, Survey Set, Target	697	149	298	1,403	149	209	FP	C	Jul-95	
7	No SSN, Relocatable Building	N/A	N/A	1	170,000	1	170	FP	C	Feh-95	
8	M866, Mobile Kitchen Trailer	4,862	4,280	4,285	17,800	5	89	FP/OPT	C	Mar-96	
	Award of the Mobile Kitchen Trailer funds will occur after completion of First Article Test (FAT). Initial contract to award March 95.										
TOTAL							4,608				

P-1 SHOPPING LIST

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EXHIBIT P-3B

UNCLASSIFIED

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (CSS-EQ)
FY 96

COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M665, Food Sanitation Center	2,148	870	1,004	13,157	134	1,763	FP	C	Feb-96
2	M824, Containerized Shower System	487	284	307	19,957	23	459	FP	C	Feb-96
TOTAL							2,222			

(ML5325)

P-1 SHOPPING LIST

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EXHIBIT P-3B

UNCLASSIFIED

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (CSS-EQ)
FY 97

(ML5325)

COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M665, Food Sanitation Center	2,148	1,004	1,068	13,484	64	863	FP	C	Feb-96
2	M824, Containerized Shower System	487	307	382	19,907	75	1,493	FP	C	Feb-96
3	M941, Truck, Firefighting, Structure	188	65	67	220,000	2	440	FP	C	Jan-96
TOTAL							2,796			

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EXHIBIT P-3B

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

LAB PETROLEUM MODULAR BASE

(M68500)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		1	1					
COST (IN MILLIONS)		2.3	2.8					

DESCRIPTION: This mobile laboratory performs a wide range of petroleum product, oils and lubricant analysis including oil analysis, quality surveillance and acceptance testing. It provides theater commanders with a highly deployable, self sufficient base laboratory capability. The laboratory consists of two modules. Module A is one laboratory, semi-trailer mounted. Module B is a second laboratory, semi-trailer mounted, containing additional test and administrative equipment. The laboratory is air transportable in a C-130 or larger aircraft.

JUSTIFICATION: Currently, commanders can perform this type of petroleum testing and analysis only in a fixed installation facility. The FY 96 program acquires one A and two B modules. A complete laboratory will go to the 475th Petroleum Group and a Module B will go to the Quartermaster Center and School.

APPROPRIATION/BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE
 LAB PETROLEUM MODULAR BASE
 (M68500)

WEAPON MODEL/SERIES/POPULAR NAME
 LAB BASE

MANUFACTURER NAME
 PLANT CITY/STATE LOCATION
 See P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Hardware	A			2,169,000	1 2,169 (1)	2,718,000	1 2,718 (1)		
Module A				1,620,000	(1,620) (1)	1,620,000	(1,620) (2)		
Module B				549,000	(549)	549,000	(1,098)		
Government Engineering					97		68		
Documentation					77				
TOTAL				2,343,000	2,343	2,786,000	2,786		

NOTE: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the FY 96 program is for one A and two B modules.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

LAB PETROLEUM MODULAR BASE

Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
95	TBS	C/FP-REQ-2(1)	ATCOM	Jul 95	Jul 96	1 Module A Module B	2,169,000 1,620,000 549,000	YES YES YES	NO NO NO	
96	TBS	C/FP-REQ-2(2)	ATCOM	Aug 96	Oct 96	1 Module A Module B	2,718,000 1,620,000 549,000	YES YES YES	NO NO NO	

REMARKS: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the FY 96 program is for one A and two B modules.

P1 SHOPPING LIST

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EXHIBIT P-5A

PRODUCTION SCHEDULE

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

DATE February 1995

P-1 ITEM NOMENCLATURE

LAB PETROLEUM MODULAR BASE

(M68500)

S F A C	S E R	U M E A	Q T Y	A C C E P T O 1 O C T	B A L D U E A S O F 1 O C T	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97																				
						CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97																				
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	A	95	1		1																											
1	A	96	2		2																											
TOTALS																																

F A C	M A N U F A C T U R E R S N A M E & L O C A T I O N	PRODUCTION RATES			M O N T H S T O R E A C H M A X A F T E R D D A Y	P R O D U C T I O N L E A D T I M E			T O T A L A F T E R 1 O C T
		MIN	1-8-5	MAX		A D M I N	M A N U F A C T U R I N G	T O T A L	
		1	2	4		P R I O R 1 O C T	A F T E R 1 O C T	1 O C T	
1	TBS				6				22
									2
									3
									6

REMARKS: Award of the FY 96 program is based on successful completion of the First Article Test (FAT).

P-1 SHOPPING LIST

APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) (MA5120)							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	0.3	3.7	1.1	1.1	1.1	1.1	1.2	1.2

DESCRIPTION: The U. S. Army has the mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations. The Inland Petroleum Distribution System (IPDS) provides bulk fuels support to military forces when deployed world wide. As Operational Projects Stocks (OPS), IPDS supports the United States Central Command (CENTCOM) as well as other unified commands' world wide contingency plans when executed. The major components of IPDS are the Tactical Petroleum Terminals (TPT), Mainline Pump Stations, and 6 inch pipeline. The system also includes facilities, software, training and planning documentation.

JUSTIFICATION: The FY 96/97 programs support the reconfiguration of the IPDS deployed to Southwest Asia (Desert Shield/Storm), supporting ongoing IPDS requirements for the Army Strategic Mobility Plan, and other contingencies such as Somalia. All items in the FY 96/97 program, except the Bulk Fuel Tank Assembly (BFTA), are needed to meet established IPDS requirements. The BFATAs are being procured based on the self life and corresponding wash out of the existing tanks. BFATAs are also the most likely components to be damaged during exercises such as the Joint Logistics Over The Shore (JLOTS) or deployment. The Critical Gap Crossings to be procured will be a new design that significantly reduces installation time as compared to the existing inventory.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP (AR) 1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
(MA5120)

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST			
Engineering - Government			266		394		3		11	
Bulk Fuel Tank Assembly	A			28,457	94	28,444	18	28,417	12	
Tool Kit, Pipe Cutting	A			64,778	9		512		341	
200 FT Truss Bridge	A						12			
20 FT Flat Rack	A					25,000	300			
Refabricated Critical Gap Crossing	A					3,000	100	3,000	100	
6 Inch Drains	A						300	1,855	154	
								375	800	
TOTAL			266		3,652		1,115		1,106	

MANUFACTURER NAME

PLANT CITY/STATE LOCATION
See P-5A

WEAPON MODEL/SERIES/POPULAR NAME

P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL

DD-COM(AR) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
BULK FUEL TANK ASSEMBLY

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY93	Bell Avon, Picayune, MS	C/FP-Option	ATCOM	Sep 93	Nov 94	25	26,148	YES	NO	
FY95	TBS	C/FP-REQ-5(1)	ATCOM	Jul 95	Sep 96	94	28,457	YES	NO	
FY96	TBS	C/FP-REQ-5(2)	ATCOM	Sep 96	Jun 97	18	28,444	YES	NO	
FY97	TBS	C/FP-REQ-5(3)	ATCOM	Mar 97	Aug 97	12	28,417	YES	NO	

REMARKS

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EXHIBIT P-5A

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1062

DATE February 1995

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
**INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
BULK FUEL TANK ASSEMBLY**

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

(MAS120)

S E R V	U M E A	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R															
					CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																		
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	25	25																										
2	A	94		94																									
2	A	18		18																									
2	A	12		12																									
TOTALS					25	124																							

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS																					
		1-8-5				ADMIN LEAD TIME	MANUFACTURING TIME			TOTAL AFTER																				
		MIN	MAX	AFTER D DAY		PRIOR '1 OCT	AFTER 1 OCT	'1 OCT																						
1	BELL AVON, PICAYUNE, MI	5	10	25																										
2	TBS	5	10	25																										

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
TOOL KIT PIPE CUTTING

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	TBS	C/FP	ATCOM	May 95	Apr 96	9	64,778	YES	NO	

REMARKS

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PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
TOOL KIT, PIPE CUTTING

(MA5120)

S E R V	U / M / E A	FY	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			REMARKS																							
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP																				
1	A	95	9		9																																	
TOTALS																																						
F A C I	MANUFACTURERS NAME & LOCATION					MIN 3		MAX 25		MONTHS TO REACH MAX AFTER D DAY 6		ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT			INITIAL REORDER																	
	P-1 TBS					8		6		7		1 OCT 1 OCT 1 OCT			7 12 3			19 4			7 1																	

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)

200 FOOT TRUSS BRIDGE

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY96	TBS	C/FP	ATCOM	Mar 96	Mar 97	12	25,000	YES	NO	

REMARKS

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(A) 1092

P-1 ITEM NOMENCLATURE
INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
200 FT TRUSS BRIDGE

(MA5120)

S F A C	E U M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97			L A T E R																																									
				OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC	JAN	FEB	MAR	JAN	FEB	MAR	JAN	FEB	MAR																																										
				QTY																																																											
1	A	12	12																																																												
TOTALS																																																															

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER	
1	TBS	1	2	4					
					INITIAL	5	13	18	
					REORDER	1	3	4	

P-1 SHOPPING LIST

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
20 FOOT FLAT RACK

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY96	TBS	C/FP-REQ-5(1)	ATCOM	Mar 96	Aug 96	100	3,000	NO	YES	Aug 95
FY97	TBS	C/FP-REQ-5(2)	ATCOM	Feb 97	Mar 97	100	3,000	YES		

REMARKS

P-1 SHOPPING LIST

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EXHIBIT P-5A

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
20 FT FLAT RACK

(MA5120)

S E R	U/MEA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			L A T E R											
				CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	A	100	100																					
1	A	100	100																					
TOTALS				200																				

F A C	1	TBS	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REMARKS
				MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	
				10	15	25		PRIOR '1 OCT	AFTER 1 OCT	
						6	INITIAL	5	TOTAL AFTER '1 OCT	
							REORDER	4		11
										6

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
REFABRICATED CRITICAL GAP CROSSING

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97	TBS	C/FP	ATCOM	Mar 97	Oct 97	83	1,855	NO	YES	Jun 96

REMARKS

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EXHIBIT P-5A

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
SIX-INCH DRAINS

(MA5120)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97	TBS	C/FP	ATCOM	Mar 97	Aug 97	800	375	NO	YES	Jun 96

REMARKS

P-1 SHOPPING LIST

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EXHIBIT P-5A

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
6 INCH DRAINS

(MA5120)

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

S E R C V	U M E A	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			CALENDAR YEAR 97			CALENDAR YEAR 98								
					OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC	JAN	FEB	MAR	JAN	FEB	MAR						
					SEP	AUG	JUL	SEP	AUG	JUL	SEP	AUG	JUL	APR	MAY	JUN	APR	MAY	JUN						
1	A	800		800																					
TOTALS					800																				

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	
1	TBS	50	100	200	6	PRIOR 1 OCT	AFTER 1 OCT	TOTAL AFTER 1 OCT
						5	6	11
						1	3	4

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

HEMTT AVIATION REFUELING SYSTEM

(R21900)

	FY94*	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	82	113	21					
COST (IN MILLIONS)	2.0	3.0	0.5					

DESCRIPTION: This system provides the Heavy Expanded Mobility Tactical Truck (HEMTT) Tanker the capability to refuel 4 aircraft simultaneously. It consists of lightweight collapsible hose; closed circuit, open port and underwing (D-1 Type) nozzles; quick disconnect, sexless, dry-break couplings and wyzes and tees.

JUSTIFICATION: The HEMTT Tanker Aviation Refueling System (HTARS) is urgently needed by all aviation units to provide faster and more efficient refueling of aircraft during combat and peacetime operations. With HTARS the tanker can refuel four aircraft at a time rather than only one without it. The FY 96 HTARS program is required to meet current shortages to the AAO.

* FY94 Program was funded out of "Items Less Than \$2M POL Line".

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

HEMTT AVIATION REFUELING SYSTEM

(R21900)

WEAPON MODEL/SERIES/POPULAR NAME

HTARS

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

SEE P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94* UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
HARDWARE	A	24,012	82 1,969*	26,009	113 2,939	26,000	21 546		
GOVERNMENT ENGINEERING					16				
PRODUCT ASSURANCE					5				
DOCUMENTATION					5				
TOTAL		24,012	1,969	26,425	2,965	26,000	546		

* FY94 Program was funded out of "Items Less Than \$2M POL Line".

P-1 SHOPPING LIST

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UNCLASSIFIED

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY92	EASI, ST. LOUIS, MO	C/FP-OPTION	TROSCOM	Aug 92	Apr 94	320	23,791	YES	NO	
FY94	EASI, ST. LOUIS, MO	C/FP-OPTION	ATCOM	Apr 94	May 95	82	24,012	YES	NO	
FY95	TBS	C/FP-REQ-2(1)	ATCOM	Jul 96	Apr 96	113	26,009	YES	NO	
FY96	TBS	C/FP-REQ-2(2)	ATCOM	Apr 96	Aug 96	21	26,009	YES	NO	

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PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMPARI 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

HEMTT AVIATION REFUELING SYSTEM

(R21900)

FISCAL YEAR	FISCAL YEAR 95																								
	CALENDAR YEAR 94			CALENDAR YEAR 95																					
92	93	94	95	96	97	98	99	00	01	02	03	04	05												
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	A	82	320																						
1	A	94	82																						
2	A	95	113																						
2	A	96	21																						
TOTALS			536																						

MANUFACTURERS NAME & LOCATION	MONTHS TO REACH MAX AFTER DAY		PRODUCTION RATES		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER	
	MIN	MAX	1-8-5	MAX	PRIOR	AFTER	PRIOR	AFTER	1 OCT	1 OCT
1 EASI, St. Louis, MO	6	25	45	4	9	3	10	5	19	8
2 TBS	6	25	45	4	1	1	1	1	1	1

REMARKS: FY 92 award delayed due to drawing errors in technical data package, numerous bidder questions during solicitation, and an error by the low bidder. The FY 94 award is actual. FY 96 contract will be awarded after FAT.

INITIAL RECORDER

P-1 SHOPPING LIST

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DD Form 2445, JUL 97

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EXHIBIT P-21

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE
HEMTT AVIATION REFUELING SYSTEM
(R21900)

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

S E A R	U/MEA FY QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R												
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98															
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				25	25	25	25	25	25	25	25	25		25	25	25	25	25	25	25	25	25	25	25	25
1	A	92	320																						
1	A	94	82																						
2	A	95	113																						
2	A	96	21																						
TOTALS			402	134																					

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	
		6	25	45		PRIOR '1 OCT	AFTER 1 OCT	
		6	25	45		7	10	
1	EASI, St. Louis, MO			4				
2	TBS			4				
					INITIAL	7		17
					REORDER	3		8

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (POL)

(ML5330)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	11.1	8.6	5.5	9.0	2.4	2.5	2.6	2.6

DESCRIPTION: These programs include wide and diverse variety of Petroleum, Oil and Lubricants (POL) equipment which have annual procurement programs of less than \$2 million. These programs support the Army's mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations.

JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets resulting in high washouts and losses. New technology improves combat capability and, as a result, reduces personnel requirements. The FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE
ITEMS LESS THEN \$2.0M (POL)

(ML5330)

Weapon System Cost Elements	IDENT CODE	MANUFACTURER NAME		TOTAL COST IN THOUSANDS OF DOLLARS						FY 97 UNIT COST	FY 97 QUANTITY	TOTAL COST
		PLANT CITY/STATE LOCATION	WEAPON MODEL/SERIES/POPULAR NAME	FY 94 UNIT COST	FY 94 QUANTITY	FY 95 UNIT COST	FY 95 QUANTITY	FY 96 UNIT COST	FY 96 QUANTITY			
M603, FUEL SYSTEM SUPPLY POINT	A	26,500	60	26,154	65	26,167	30	26,150	60	26,150	60	1,569
M666, TEST KIT, GROUND FUELS	A	6,682	88		88		785					
M612, PUMP ASSEMBLY, REG, 350 GPM	A		40	22,091	55	22,100	20		74	22,095	74	1,635
M638, PUMP ASSY, FLAMMABLE LIQ, 50 GPM	A			3,622	119	3,620	250		308	3,620	308	1,115
M641, LUBE & SERVICE UNIT, TRAILER MTD	A	29,000	25	29,600	60	29,604	48		41	29,610	41	1,214
M649, 10K POL TANK	A	7,589	185		1,404		1,421					
M730, FUEL TEST KIT, AVIATION	A	5,500	142	5,500	140	5,500	100		174	5,500	174	957
M939, FILTER SEPARATOR, 100 GPM	A	1,545	204		770		550					
M908, HOSELINE OUTFIT	A	68,684	19		1,305		11		18	69,000	18	1,242
M940, FILTER SEPARATOR, 350 GPM	A	3,923	142	3,923	505	3,924	172		334	3,925	334	1,311
R384, 3K GAL POL TANK	A		557		1,981		675					
R219, HEMTT TANKER AVIATION REFUEL SYS	A	24,110	82	3,114	237		738					
R214, TANK ASSEMBLY, FABRIC, COLLAPSIBLE, 20K	A	2,511	1,977		738							
ENGINEERING SUPPORT			769									
TOTAL			11,050		8,611		5,537					9,043

P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		UNCLASSIFIED		DATE February 1995						
ITEMS LESS THAN \$ 2 MILLION DOLLARS		P-1 ITEM NOMENCLATURE		ITEMS LESS THAN \$2.0M (POL) FY 95						
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		(ML5330)								
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M603, FUEL SYSTEM SUPPLY POINT	747	525	580	26,154	65	1,700	FP/REQ	C	Jun-95
2	M612, PUMP ASSY 350 GPM	242	180	230	22,091	55	1,215	FP/REQ	C	Aug-95
3	M638, PUMP ASSEMBLY, 50 GPM	1,338	800	890	3,622	119	431	FP/REQ	C	Jul-95
4	M641, LUBE-SERV UNIT	864	675	680	29,600	60	1,776	FP/REQ	C	Mar-95
5	M730, FUEL TEST KIT, AVIATION	729	617	675	5,500	140	770	FP/REQ	C	Jul-95
6	M940, FILT SEP, 350 GPM	1,999	1,855	1,955	3,923	505	1,981	FP/REQ	C	Jun-95
7	R384, TANK POL 3000 GAL	266	300	260	3,114	237	738	FP/REQ	C	Jun-95
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.										
TOTAL PROGRAM										
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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
ITEMS LESS THAN \$2.0M (POL)
FY 96

(ML5330)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY TY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M603, FUEL SYSTEM SUPPLY POINT	747	580	600	26,167	30	785	FP/REQ	C	35,096	
2	M612, PUMP ASSY 350 GPM	242	230	235	22,100	20	442	FP/REQ	C	35,125	
3	M638, PUMP ASSY, 50 GPM	1,338	890	1,100	3,620	250	905	FP/REQ	C	35,125	
4	M641, LUBE-SERV UNIT	864	680	700	29,604	48	1,421	FP/REQ	C	35,096	
5	M730, FUEL TEST KIT, AVIATION	729	675	710	5,500	100	550	FP/REQ	C	35,125	
6	M908, HOSELINE OUTFIT	176	172	174	69,000	11	759	FP/REQ	C	35,125	
7	M940, FILT SEP, 350 GPM	1,999	1,955	1,975	3,924	172	675	FP/REQ	C	35,125	
TOTAL								5,537			

NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE: February 1995

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (POL)
FY 97

(ML5330)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M603, FUEL SYSTEM SUPPLY POINT	747	600	650	26,150	60	1,569	FP/REQ	C	Feb-97	
2	M612, PUMP ASSY 350 GPM	242	235	240	22,095	74	1,635	FP/REQ	C	Mar-97	
3	M638, PUMP ASSY, 50 GPM	1,338	1,100	1,295	3,620	308	1,115	FP/REQ	C	Mar-97	
4	M641, LUBE-SERV UNIT	864	700	725	29,610	41	1,214	FP/REQ	C	Feb-97	
5	M730, FUEL TEST KIT, AVIATION	729	710	725	5,500	174	957	FP/REQ	C	Mar-97	
6	M908, HOSELINE OUTFIT	176	174	176	69,000	18	1,242	FP/REQ	C	Mar-97	
7	M940, FILT SEP, 350 GPM	1,999	1,975	1,995	3,925	334	1,311	FP/REQ	C	Mar-97	
TOTAL								9,043			

NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.

P-1 SHOPPING LIST

REPORTS CONTAINING SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FWD AREA WTR POINT SUP SYSTEM

(M18100)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		155	148					
COST (IN MILLIONS)		2.7	2.7					

DESCRIPTION: The Forward Area Water Point Supply System (FAWPSS) supports the Army mission of providing potable water to soldiers in their fields of operation. As the name states, FAWPSS provides life sustaining water to the most forward area of operation; front line and remote units in tactical environments where larger water distribution systems would be impractical due to terrain or hostile fire considerations. It was designed to be used at the company level, but is also part of the Arid Augmentation Water Teams in divisions and below. The FAWPSS also supports the National Training Center, the Quartermaster School, the Southern Command (SOUTHCOM), combat support hospitals, and Operation Project Stocks (OPS). It consists of six 500 gallon water drums, a 125 gallons per minute (gpm) water pump, suction and discharge hose assemblies, valves, nozzles, and hose connecting hardware.

JUSTIFICATION: The FAWPSS programmed requirements are needed to improve the combat capabilities and increase operational readiness of the Army. The FY 96 program is required to replace losses due to field usage and long term storage as part of CONUS Depot Operational Projects and on Prepositioned Vessels. Due to the extensive use of coated fabrics, FAWPSS has a short shelf life and an even shorter in-use life.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FWD AREA WTR POINT SUP SYSTEM

(M18100)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
SEE P-5A

WEAPON MODEL/SERIES/POPULAR NAME

FAWPSS

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
HARDWARE				17,406	155 2,698 4	18,135	148 2,684 2		
ENGINEERING					4		4		
DOCUMENTATION					4		4		
PRODUCT ASSURANCE					2		2		
TESTING					3				
TOTAL				17,490	2,711	18,189	2,692		

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
FWD AREA WTR POINT SUP SYSTEM

(M18100)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY92	LABARGE PRODUCTS ST. LOUIS, MO	C/FP-REQ-2(2)	TROSCOM	Mar 92	Mar 93	157	15,968	YES	NO	
FY95	TBS	C/FP-REQ-3(1)	ATCOM	Jun 95	Jun 96	155	17,406	YES	NO	
FY96	TBS	C/FP-REQ-3(2)	ATCOM	Jun 96	Dec 96	148	18,135	YES	NO	

REMARKS

P1 SHOPPING LIST

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EXHIBIT P-5A

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
FWD AREA WTR POINT SUP SYSTEM

(M18100)

S F E A R C V	U M E A Q T Y	A C C E P P R I O R T O A S O F	B A L D U E O C T 1	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96																											
				OCT	NOV	DEC	OCT	NOV	DEC	OCT	NOV	DEC																									
				CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96																											
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																
1	A	92	157																																		
2	A	95	155	155																																	
2	A	96	148	148																																	
TOTALS				157	303																																

F A C	M A N U F A C T U R E R S & L O C A T I O N	P R O D U C T I O N R A T E S			M O N T H S T O R E A C H M A X A F T E R D D A Y	P R O D U C T I O N L E A D T I M E		R E M A R K S
		M I N	1-8-5	M A X		A D M I N L E A D T I M E	M A N U F A C T U R I N G T I M E	
1	L A B A R G E, S T. L O U I S, M O	5	30	40	4	P R I O R 1 O C T	A F T E R 1 O C T	F Y 96 program to be awarded June 96 after FY95 program's First Article Test is completed.
2	T B S	5	30	40	4	8	21	
		I N I T I A L				1	8	
		R E O R D E R				7		

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

FWD AREA WTR POINT SUP SYSTEM

(M18100)

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

S E A R C	U/MEA	FY	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			L A T E R			
						CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99						
						JAN	FEB	MAR	JAN	FEB	MAR	JAN	FEB	MAR				
1	A	92	157	157														
2	A	95	155	95	60	30	30											
2	A	96	148		148			30	30	30	28							
TOTALS				252	208	30	30	30	30	28								

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	
		5	30	40		PRIOR 1 OCT	AFTER 1 OCT	
1	LABARGE, ST. LOUIS, MO	5	30	40	4			
2	TBS	5	30	40	4			
						INITIAL		8
						REORDER		1
								7
								21
								8

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

Small Mobile Water Chiller (SMWC)

(M15700)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		185	387					
COST (IN MILLIONS)		1.9	4.0					

DESCRIPTION: The Small Mobile Water Chiller (SMWC) is a self-contained, vapor-cycle, single pass water chiller. The main components consist of a diesel engine, compressor, condenser, heat exchanger (evaporator) and water pump. The components are skid mounted. The SMWC will cool 800 gallons of water from 120 degrees Fahrenheit to 60 degrees Fahrenheit in a 24 hour operation. Beginning with the FY 95 procurement, all SMWCs will utilize approved R - 134a refrigerant.

JUSTIFICATION: The SMWC is part of the near term water supply equipment which is designed to provide cool fresh water to the U.S. Central Command (CENTCOM) in harsh and arid environments. Programmed requirements are needed to maintain the operational readiness of the U.S. Army forces and for the replacement of assets lost during Desert Storm, Somalia, and Rwanda, and will ensure the viability of the Army's water supply capabilities for the future.

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

SMALL MOBILE WATER CHILLER (SMWC)

(M15700)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
SEE P-5A

WEAPON MODEL/SERIES/POPULAR NAME

CHILLER

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS									
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST		
HARDWARE	A			10,200	185 1,887		10,199	387 3,947			
ENGINEERING					4			4			
DOCUMENTATION					1			1			
TESTING					1			1			
TOTAL				10,232	1,893		10,214	3,953			

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EXHIBIT P-5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT
 P-1 ITEM NOMENCLATURE
 Small Mobile Water Chiller (SMWC)
 (M15700)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY90	AIRTACS CORP RED LION, PA	C/FP	TROSCOM	Jan 91	Sep 91	248	6,700	YES	NO	
FY95	TBS	C/FP-REQ-5(1)	ATCOM	Sep 95	May 96	185	10,200	NO	YES	Mar 95
FY96	TBS	C/FP-REQ-5(2)	ATCOM	Jun 96	Sep 96	387	10,199	NO	YES	Mar 95

REMARKS
 FY95 projected increase in unit price and fourth quarter award are a result of extensive changes to the SMWC to satisfy pollution control requirements.

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

Small Mobile Water Chiller (SMWC)

(M15700)

S E R V A	U/M EA FY QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95				FISCAL YEAR 96				FISCAL YEAR 97				L A T E R												
				CALENDAR YEAR																								
				94				95				96					97											
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	A	185	185								A																	
1	A	387	387													20	30	40	60	35								
																										2		
TOTALS							572									20	30	40	60	60	60	60	60	60	60	60	2	
F A C	MANUFACTURER'S NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME			TOTAL			REMARKS															
	MIN	1-8-5	MAX	5	PRIOR 1 OCT	AFTER 1 OCT	ADMIN LEAD TIME	MANUFACTURING TIME	INITIAL	REORDER	PRIOR 1 OCT	AFTER 1 OCT																
1			20	60	80	5						11	2	June award of FY96 program is due to First Article Test approval.														

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (WATER EQ)

(ML5335)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	4.1	3.0	2.4	3.1	3.0	3.1	3.3	5.6

DESCRIPTION: The equipment procured with these programs supports the Army mission of providing potable water to soldiers in their field of operations. They provide life sustaining water to the front line and remote units in tactical environments. In addition to consumption, this items support personal hygiene, emergency medical conditions, equipment maintenance, and nuclear, biological and chemical decontamination. They include a wide variety of low unit cost, high usage items such as water tanks, pumps, water purification, storage and distribution systems. Each have an annual procurement of under \$2 million.

JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets which result in high washouts and losses. New technology improves combat capability and the individual soldiers quality of life. The FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (WATER EQ)

(ML5335)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS															
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST								
M115, PUMP UNIT, 350 GPM	A		7 12,500		40 500												
M120, TANK, FABRIC, 50,000 GAL	A		80 10,325		53 549		62 10,355		62 642								
M124, TANK, FABRIC, 20,000 GAL	A		35 5,343		187 5,333		75 5,347		75 401								
M128, DRUM, FABRIC, 500 GAL	A		100 2,450		189 463		463 1,134		463 460								
M132, WATER STOR & DIST SYS, 40K	A		4 89,500		358												
M141, TANK, FABRIC, 4570 GAL	A		95 6,147		584												
M155, HYPOCHLORINATION UNIT	A		177 5,362		949												
M160, PUMP UNIT, 125 GPM	A		36 1,513		853 1,291		143 217		143 217								
M660, TANK, FABRIC, 3,000 GAL	A		875														
ENGINEERING SUPPORT			4,067		2,995		2,394										3,089
TOTAL																	

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EXHIBIT P-5

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE February 1995

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (WATER EQ)
FY 95

(ML5335)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M160, PUMP UNIT, 125 GPM	4,913	1,232	1,985	1,513	853	1,291	FP/REQ	C	May-95
2	M115, PUMP UNIT, 350 GPM	122	82	120	12,500	40	500	FP/REQ	C	Aug-95
3	M126, DRUM, FABRIC, 500 GAL	5,951	2,297	2,350	2,450	189	463	FP/REQ	C	May-95
4	M120, TANK, FABRIC, 50,000 GAL	320	314	319	10,358	53	549	FP/REQ	C	Aug-95
5	M124, TANK, FABRIC, 20,000 GAL	327	110	145	5,333	36	192	FP/REQ	C	Aug-95
TOTAL							2,995			

NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.

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EXHIBIT P-3B

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE February 1995

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (WATER EQ)
FY 96

(ML5335)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M126, DRUM, FABRIC, 500 GAL	5,951	2,350	2,775	2,449	463	1,134	FP/REQ	C	Feb-96	
2	M120, TANK, FABRIC, 50,000 GAL	320	319	314	10,355	62	642	FP/REQ	C	Jun-96	
3	M124, TANK, FABRIC, 20,000 GAL	327	145	220	5,347	75	401	FP/REQ	C	Jun-96	
4	M160, PUMP UNIT, 125 GPM	4,913	1,985	2,100	1,517	143	217	FP/REQ	C	Apr-96	
TOTAL								2,394			

NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.

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EXHIBIT

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE February 1995

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (WATER EQ)
FY 97

(ML5335)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M141, TANK, FABRIC, 4570 GAL	864	156	225	7,064	78	551	FP/REQ	C	Feb-97
2	M126, DRUM, FABRIC, 500 GAL	5,951	2,775	3,200	2,450	460	1,127	FP/REQ	C	Feb-97
3	M120, TANK, FABRIC, 50,000 GAL	320	314	315	10,355	62	642	FP/REQ	C	Mar-97
4	M124, TANK, FABRIC, 20,000 GAL	327	220	295	5,347	75	401	FP/REQ	C	Mar-97
5	M660, TANK, FABRIC, 3000 GAL	246	107	124	6,292	24	151	FP/REQ	C	Apr-97
6	M160, PUMP UNIT, 125 GPM	4,913	2,100	2,200	1,517	143	217	FP/REQ	C	Apr-97
							TOTAL	3,089		

NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.

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EXHIBIT P-3B

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:					DATE		
Other Procurement, Army 3		Combat Support Medical (MN1000)					February 1995		
Other Support Equipment									
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (In Millions)		\$20.8	\$19.2	\$14.3	\$16.5	\$16.6	\$18.4	\$28.8	\$28.8

DESCRIPTION:

The Combat Support Medical (MN1000) line funds hospital assemblage components for Deployable Medical Systems (DEPMEDS) and acquisition of major medical equipment items required to equip DEPMEDS hospitals and other field medical units such as battalion aid stations, medical clearing stations, dental units, etc.

Deployable Medical Systems (MX0003) provides funding for major nonmedical components of military field hospitals which have attributes of mobility, short setup time and efficiency. Hospital components are assembled with major medical equipment items procured by the Field Medical Equipment line. Field hospitals are available in a variety of Medical Force 2000 (MF2K) configurations such as the Combat Support Hospital (CSH), Mobile Army Surgical Hospital (MASH), Field and General Hospitals.

Field Medical Equipment (MB1100) funds acquisition of major medical equipment items required to equip DEPMEDS combat hospital units and other field medical units such as battalion aid stations, medical clearing stations, and dental units. In addition, this line provides medical equipment to active and reserve components which must be replaced due to fair wear and tear, obsolescence and nonserviceability.

JUSTIFICATION:

Funding for Deployable Medical Systems (MX0003) and Field Medical Equipment (MB1100) is essential to the Army's objective of enhancing medical readiness in support of the total Army force structure as directed by DoD and Congress. The equipment procured will provide a significant improvement in field medical support capability.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. Other Procurement, Army 3 (MN1000)		B. WEAPON MODEL Combat Support Medical (MN1000)		C. NA		D. DATE: February 1995	
Weapon System Cost Elements	IDEN CODE	FY94		FY95		FY96		FY97	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Deployable Medical Systems (MX0003)			\$6,193		\$11,088		\$7,441		\$7,716
Field Medical Equipment (MB1100)			\$14,558		\$8,121		\$6,869		\$8,768
TOTAL			\$20,751		\$19,209		\$14,310		\$16,484

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Exhibit P-5 Weapon System Cost Analysis

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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS)

(MX00003)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	6.2	11.1	7.4	7.7	7.0	9.3	10.9	10.9

DESCRIPTION: The Deployable Medical System (DEPMEDS) is a military field support hospital, which has the attributes of mobility, short set-up time, and efficiency. Hospitals are to be available in four basic configurations in a variety of Medical Force 2000 (MF2K) applications, such as Mobile Army Surgical Hospitals, Combat Support Hospitals, and Field/General Hospitals.

The complexes consists of one and two sided expandable tactical shelters, two and eight section Tent, Extendable, Modular, Personnel (TEMPER), and related power, water, and environmental control systems. The hospital configurations facilitate patient care and medical productivity while retaining full medical responsiveness to combat scenarios. Modular Field Kitchens have been integrated into this system to provide for the special dietary requirements of hospitals. This system has been standardized throughout the Department of Defense.

JUSTIFICATION: Justification of specific elements supporting DEPMEDS is displayed on individual P-Form exhibits. Acquisition of equipment required for initial fieldings of original and modified unit configurations has been completed. Out year acquisitions support sustainment requirements and incremental enhancements to unit capabilities.

REPORT'S CONTROL SYMBOL DD-COM(AR) 1092		UNCLASSIFIED										DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT											
		P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS					WEAPON MODEL/SERIES/POPULAR NAME DEPMEDS					(MX0003)	
		MANUFACTURER NAME PLANT CITY/STATE LOCATION											
		TOTAL COST IN THOUSANDS OF DOLLARS											
Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97		FY 98		FY 99	
		UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
		TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST
M330 FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM (FMOGDS)	A	300	352,632	6,700	290,789	5,525	290,800	4,362	19	10	1,511	1,843	15
No SSN WATER DISTRIBUTION AND WASTE WATER COLLECTION SYSTEM	A	5,893	4,388	11,088	7,441								
ITEMS LESS THAN \$2 MILLION	A												
TOTAL		6,193	11,088	7,441	7,716								

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DATE February 1995

REPORTS CONTROL SYMBOL
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BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS)
ITEMS LESS THAN \$2.0 M

(MX00003)

	FY 94	FY 95	FY 96	FY 97
QUANTITY				
COST (IN MILLIONS)	5.9	4.4	0.4	1.8

DESCRIPTION: These items are nonmedical components of the Deployable Medical System which have an annual program cost of less than \$2.0 million. dollars, or components of end items being procured as initial, sustainment, or replacement issue.

JUSTIFICATION: These acquisitions meet the direction of the Vice Chief of Staff of the Army direction on Chemical Biological Hardening, and mandates on maintaining a high level of medical care for field units. The goal of Chemically Hardening DEPMEDS is to provide Chemical Biological protection to selected components of a DEPMEDS equipped hospital. Patients and medical personnel must be unencumbered by chemical protective equipment to effectively treat casualties on the integrated battlefield. The CP DEPMEDS provides a clean, toxin free, environmentally controlled patient treatment area maximizing use of existing equipment.

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EXHIBIT P-40

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE
 DEPLOYABLE MEDICAL SYSTEMS
 ITEMS LESS THAN \$2 MILLION
 WEAPON MODEL/SERIES/POPULAR NAME
 DEPMEDS

(MX00003)

MANUFACTURER NAME
 PLANT CITY/STATE LOCATION

Weapon System Cost Elements	IDENT CODE	FY 94			FY 95			FY 96			FY 97		
		UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity	TOTAL COST	UNIT COST	Quantity	TOTAL COST
No SSN CP DEPMEDS HUB Engineering	A		993			500							
No SSN Dolly Set Side Lift Kits	A		11,000	12,745		102							
No SSN TEMPER Liners (Initial Issue)	A	155	1,700			1,300							
M339 Air Conditioner 54000 BTU	A	4,867	226					4,932	84				249
M338 Power Distribution Panel	A		1,100						415				1,255
R453 DISE 40 Amp	A		313	6,020		49							
R454 DISE 100 Amp	A	5,112	1,600			295							
No SSN ISU 4 Door Container	A			6,004		212							
No SSN DISE Cable Set (1)	A			909		1,273							
No SSN DISE Cable Set (4)	A			949		22							
No SSN FST Shelters	A					20							
No SSN Sample Data Collection	A					527							
			500			500							
TOTAL			5,893			4,388			415				1,843

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EXHIBIT P-5

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DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR) 1092

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

FIELD MEDICAL OXYGEN GENERATING AND
DISTRIBUTION SYSTEM

(M33000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	0	19	19	15	19	19	19	
COST (IN MILLIONS)	0.3	6.7	5.5	4.4	5.5	5.5	5.5	

DESCRIPTION: The Field Medical Oxygen Generation/Distribution System (FMOGDS) consists of two modules, the Oxygen Generation/Distribution Module (OGDM), and the Cylinder Filling Module (CFM). The OGDM contains the oxygen generation and storage equipment and the oxygen distribution network which links this with the hospital facilities. The CFM contains the high pressure oxygen compressor and cylinder filling station assemblies. Air is introduced into the OGDM, where it is filtered and compressed to about 30 pounds per square inch gage (psig). A two bed pressure swing absorption system separates oxygen from air to create a continuous stream (200 standard cubic feet per hour) of 93 percent pure oxygen. The first priority for use of oxygen is at hospital beds. The balance of produced oxygen not utilized in hospital is diverted to the CFM.

JUSTIFICATION: Military conflicts and disaster relief activities result in the need for large quantities of medically pure oxygen. The availability of oxygen is a prime factor in saving lives of wounded personnel. Historically, oxygen has been provided by the use of oxygen cylinders, which present numerous logistical risks associated with transportation, refill and storage. Because of the valid need for large quantities of medical oxygen and the associated logistical burdens, significant advantages can be realized by utilizing on-site medical oxygen generating systems to enhance logistical, safety and cost considerations.

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EXHIBIT P-40

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COM(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM

WEAPON MODEL/SERIES/POPULAR NAME

FMOGDS

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

Guild, Inc.

Columbus, OH

(M33000)

TOTAL COST IN THOUSANDS OF DOLLARS

FY 95

Quantity

TOTAL COST

FY 96

Quantity

TOTAL COST

FY 97

Quantity

TOTAL COST

FY 98

Quantity

TOTAL COST

Weapon System Cost Elements

Engineering (Government)

Hardware

Data

Testing

TOTAL

300

282,263

946

186

205

19

5,363

162

19

5,363

282,267

15

4,233

129

300

352,632

6,700

5,525

290,789

290,800

4,362

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EXHIBIT P-5

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REPORTS CONTROL SYMBOL
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Field Medical Oxygen Generating and Distribution System
(FMOGDS)

(M33000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 93	Guild, Inc. Columbus, OH	C/FPM-4(1)	USAMMDA	Sep 93	Sep 94	3	769,333	Yes	No	
FY 95	Guild, Inc. Columbus, OH	C/FPM-4(2)	USAMMDA	Jan 95	Sep 95	19	282,263	Yes	No	
FY 96	Guild, Inc. Columbus, OH	C/FPM-4(3)	USAMMDA	Jan 96	Sep 96	19	282,263	Yes	No	
FY 97	Guild, Inc. Columbus, OH	C/FPM-4(4)	USAMMDA	Jan 97	Sep 97	15	282,263	Yes	No	

REMARKS Unit cost for FY 93 contract quantities represent a low rate initial production (LRIP).

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EXHIBIT P-5A

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FIELD MEDICAL OXYGEN GENERATING
AND DISTRIBUTION SYSTEM
(M33000)

S E R V	U/E	FY	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 93			FISCAL YEAR 94			FISCAL YEAR 95																										
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP									
1	A	93	3		3																																	
1	A	95	19		19																																	
1	A	96	19		19																																	
1	A	97	15		15																																	
TOTALS																																						

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			REMARKS
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER	
		1	3	15		PRIOR '1 OCT	AFTER 1 OCT	TOTAL AFTER '1 OCT	
1	Guild, Inc. Columbus, OH								
								11	
								3	
								9	
								24	
								12	

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMPRIARI 1092

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Field Medical Oxygen Generating and
Distribution System

(M3300)

S F A C	E U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	A	19	16	3	3	3	3	3	3	3	3	3															
1	A	19	19																								
1	A	15	15																								
TOTALS				3	50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				

F A C	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			TOTAL AFTER 1 OCT					
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT						
		1	3	15		PRIOR 1 OCT	AFTER 1 OCT	1 OCT						
1	Guild, Inc Columbus, OH				5				11	13	24			
									3	9	12			

UNCLASSIFIED

DATE February 1995

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

Water Distribution/Waste Water Disposal System

(NO SSN)

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			10	10	10			
COST (IN MILLIONS)			1.5	1.5	1.5			

DESCRIPTION: This system distributes potable water throughout the DEPMEDES complex, and treats used/contaminated water to insure safe disposal. The system is composed of tanks, hoses, fittings, valves, nozzles, meters, gauges, and sinks that provide maximum flexibility in distributing water throughout the DEPMEDES complex.

JUSTIFICATION: The system controls infection and the spread of communicable diseases within the hospital complex by providing a source of safe potable water for use in the treatment of patients, and a means of collecting and treating potentially dangerous used water.

REPORTS CONTROL SYMBOL DD-COMPI(AR) 1092		UNCLASSIFIED		DATE February 1995		
WEAPON SYSTEM COST ANALYSIS EXHIBIT						
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Water Distribution/Waste Water Disposal System				
MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME WD/WWDS		(No SSN)		
Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS				Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	FY 96 UNIT COST	
Engineering (Government)						
Hardware						
Data						
TOTAL						
				141,500	142,900	1,429
				44	44	38
				10	10	10
				1,415	1,415	1,429
				42	42	44
				141,500	142,900	1,511
				1,501	1,501	1,511

P-1 SHOPPING LIST

UNCLASSIFIED

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EXHIBIT P-5

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Water Distribution/Waste Water Disposal System

(No SSN)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TBS	OTHER	ATCOM	May 96	Dec 96	10	141,500	No	Yes	Apr 95
FY 97	TBS	OTHER	ATCOM	Jan 97	May 97	10	142,900	No	Yes	Apr 95

REMARKS: Depot Fabrication Program, no First Article Test.
Unit cost changes cover anticipated equipment refinements experienced during the production cycle.

P1 SHOPPING LIST

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EXHIBIT P-5A

ITEM NO 137

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMPIAR 1092

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Water Distribution/Waste Water
Disposal System

(NoSSN)

S E R V	U/M EA FY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	A	10	10																								
1	A	10	10																								
TOTALS																											

F A C	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME			TOTAL AFTER 1 OCT																		
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME																				
						PRIOR 1 OCT	AFTER 1 OCT																				
1	Unknown	1	2	20	3																						

REMARKS: First Article Test period not included in
schedule as program is planned for Depot Fabrication.

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:						DATE
Other Procurement, Army 3-Other Support Equipment		Field Medical Equipment (MB1100)						February 1995
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
	\$14.6	\$8.1	\$6.9	\$8.8	\$9.6	\$9.1	\$17.9	\$17.9
COST (In Millions)								

DESCRIPTION:

Deployable Medical Systems (DEPMEDS) equipped hospitals are comprised on DoD standardized medical modules (e.g., Operating Room, Central Materiel Service, Intensive Care Unit, Triage/Emergency Treatment, Laboratory, X-Ray, etc.). This budget line specifically funds the major medical equipment items in the functional medical modules. For example: the surgical table and anesthesia apparatus in the operating room; the sterilizers in the central materiel service; the ventilator and defibrillator-monitor in the ICU and triage-emergency treatment; the diagnostic equipment in the laboratory; and the high capacity x-ray units in the x-ray module.

This line funds major medical equipment items for the Army combat hospital force structure. This funding line also buys major medical equipment required in other field medical units. Examples include defibrillator-monitors, low capacity x-ray units, and sterilizers in medical clearing stations and dental x-ray units and sterilizers in field dental units.

Equipment funding includes OPA procured developmental items that have transitioned from RDT&E advanced development. Examples of developmental items include systems for field CTs, ultrasound imaging, and steam vacuum pulse sterilizers.

JUSTIFICATION:

DEPMEDS equipped hospital sets, with the necessary medical equipment that will correct the "warstopper" problem of having insufficient and inadequate medical equipment. This medical equipment enhances the medical readiness position of the field units allowing them to perform their wartime missions.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL		C. NA		D. DATE:	
Weapon System Cost Elements		Other Procurement, Army 3		Field Medical Equipment (MB1100)		FY96		February 1995	
		FY94		FY95		FY96		FY97	
IDEN	CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Sustainment/Modernization of previously procured DEPMEDES equipped hospital sets:									
Defibrillator		270	\$9,100	157	\$1,459		\$3,246		\$4,887
Liquid Oxygen (LOX) Associated Items of Equipment			2,500		1,459				
Computerized Tomography (CT) Scanners		5	1,545						
Augmentation Team Equipment (Multiple)			3,500						
Initial sustainment/rqmts contracts for Equipment Readiness Code (ERC) A medical items for quick replacement & delivery: (i.e., electro surgical apparatus, pulse oximeter, blood refrigerator, operating table, dental x-ray, high and low capacity x-rays, portable ventilator, centrifugal analyzer, anesthesia apparatus, sodium potassium analyzer, blood recovery unit, centrifuge lab, ultrasonic cleaner, solution warming cabinet, chair and stool unit, operatory dental, ECG monitor, x-ray processing machine, sink unit)			1,555				3,246		4,887
Sustainment/Modernization of Major Medical Equipment for nonhospital fld units:									
Dental Operatory		285	\$1,500		\$1,045		\$1,054		\$1,054
Refrigerators, blood			1,140						
Debrillator		54	360	58	541	59	550	59	550
Dental X-Ray					504		504		504
Production funding of advanced developed medical equipment:									
Sterilizer		12	\$3,958		\$5,617		\$2,569		\$2,927
LOX (Pieces; i.e., plant, storage & distribution)			1,000		1,500	15	1,135	36	2,827
Ultrasound			1,258			6	434		
Telemedicine			1,700		987				
Dental X-Ray									
Army Medical Lab Equipment				18	630		1,000		
Medical Compressor System					2,500				
Ventilator					\$8,121		\$6,869		\$8,768
TOTAL			\$14,558		\$8,121		\$6,869		\$8,768

P-1 SHOPPING LIST

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Exhibit P-5 Weapon System Cost Analysis

Reports Control
Symbol DD-COMP (AR)

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

Appropriation/Budget Activity
Other Procurement, Army/Activity 3
Other Support Equipment

P-1 Item Nomenclature
Shop Eq Contact Maintenance Trk Mtd (M61500)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		118	71	66	59			
COST (MILLIONS)	\$	\$ 2.8	\$ 1.8	\$ 1.8	\$ 1.7	\$	\$	\$

DESCRIPTION: The Shop Equipment, Contact Maintenance Vehicle (CMV), Truck Mounted, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) Heavy Variant (HHV) (1097) is for general use and will provide improved cross-country mobile maintenance support to maneuver elements. The current CMVs, the gasoline-engine M887 Dodge Truck and Commercial Utility Cargo Vehicle (CUCV) CMV, are unable to traverse the terrain or maintain sufficient cross-country speed to keep up with support equipment while carrying tools and repair parts. The CMV will deploy to the site of disabled equipment to make repairs of all weapons systems and military equipment. The CMV will operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Collection Point (UMCP). The CMV will operate as far forward as behind the first terrain feature to the rear of the Forward Line of Own Troops (FLOT). Contact Maintenance teams using the CMV will perform repairs to equipment on-site in hours of daylight and darkness.

JUSTIFICATION: Readiness posture is being affected by the shortage of Contact Maintenance Shops to fill unit requirements throughout the Army. The Shop Equipment, Contact Maintenance is employed at the intermediate levels of maintenance to provide the capability of performing on-site repairs to disabled equipment. Non-availability of these shops degrades unit mission capability. The need to replace uneconomically repairable, overaged shops (1500) mounted on the M880 series truck chassis for which spare and repair parts are no longer available, continues to exist. In addition, the 1986 CUCV version CMV will not be supported after 1997. This is in line with the "Purefleeting" concept for Light Maintenance Vehicle. Future procurement of the CMV will be mounted on the HMMWV chassis. This will assist in purifying the vehicular fleet and reduce shortage requirements of spare/repair parts and fuel. The FY 96 and FY 97 CMV programs will permit the Army to continue to support the highest priority Force Package 1 units in their tactical maintenance mission. This version also adds to the overall ability of the system to transverse over all types of terrain. The FY 96-97 programs are to support an AAO of approximately 2,000.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	IDENT CODE	A. Appropriation/Budget Activity Other Procurement, Army/Activity 3 Other Support Equipment				B. Weapon Model/Series Shop Eq Contact Maint Trk Mtd (M61500)		C. Manufacturer/Location TBS		D. Date February 1995	
		FY 94		FY 95		FY 96		FY 97			
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty		
1. Hardware	B			32100	79	2,536	49	1,604	33711	46	1,551
2. Engineering Support					246		145			173	
3. Quality Assurance					25		24			25	
4. Documentation					5		5			5	
TOTAL					2,812		1,778			1,754	
Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994. Cost data was analyzed in January 1995. Although savings were realized in combining tool sets, labor and material costs were substantially higher than the estimates used to develop the unit costs on previous P-form submissions.											

BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)

DATE: February 1995

**Appropriation/Budget Activity Procurement
Other Procurement, Army/Activity 3, Other Support Equipment**

**P-1 Item Nomenclature
Shop Eq Contact Maintenance Trk Mtd (M61500)**

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WHEN AVAIL
Hardware FY95 FY96 FY97	TBS TBS TBS	C/FP C/FP C/FP	ACALA ACALA ACALA	May 95 Jan 96 Nov 96	May 96 Feb 97 Sep 97	79 49 46	32,100 32,729 33,711	No Yes Yes	Yes No No	Feb 95

REMARKS:

Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994. Cost data was analyzed in January 1995. Although savings were realized in combining tool sets, labor and material costs were substantially higher than the estimates used to develop the unit costs on previous P-form submissions.

CODE "B" ITEM DESCRIPTION		DATE: February 1995	REPORT CONTROL SYMBOL DD-COMP(AR) 1092
APPROPRIATION	ACTIVITY: Activity 3, Other Support Equipment	P-1 ITEM NOMENCLATURE Shop Eq, Contact Maintenance Trk Mtd (M61500)	
1. CURRENT DEVELOPMENT AND TEST STATUS			

a. DEV TEST & EVAL (DT&E)	SCHEDULE DATE		REASON FOR DELAY (3)
	CURRENT (1)	LAST REPORTED (2)	
b. INITIAL OPER TEST & EVAL (IOT&E)	PLAN/ACTUAL		
c. OPER TEST & EVAL (OT&E)	PLAN/ACTUAL		
d. AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL		
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE APR 95			

3. EQUIPMENT ITEM(S) TO BE REPLACED
Shop Eq Contact Maintenance Trk Mtd, Commercial Utility Cargo Vehicle (CUCV)

4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED
The Shop Eq, CM, HMMWV, is state-of-art maintenance equipment which is lighter and has increased mobility.

5. DEVELOPMENT CONTRACT INFORMATION

CONTRACTOR (1)	PLANT LOCATION (2)	COMPONENT (3)	Through FY94 (4)	FY95 (5)	FY96 (6)	FY97 (7)	BEYOND BY: (8)
Rock Island Arsenal	Rock Island, IL		1.0				
TOTAL RDT&E FUNDING			1.0				

6. REMARKS
Current Development and Test Status: DT&E, IOT&E, and OT&E are not applicable to this item. This is a non-developmental item.

Reports Control
Symbol DD-COMP (AR)

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

Appropriation/Budget Activity Procurement
Other Procurement, Army/Activity 3
Other Support Equipment

P-1 Item Nomenclature
Items Less Than \$2.0M (Maint Equip) (ML5345)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)	\$ 7.0	\$ 1.1	\$ 1.5	\$ 1.4	\$ 1.2	\$ 1.7	\$ 6.0	\$ 7.0

DESCRIPTION: Provides for procurement of major shop equipment, shop sets, weapons support items, and explosive ordnance disposal (EOD) equipment. Major shop equipment shop sets have multi-applications for Army maintenance organizations tasked with maintaining and repairing combat and tactical weapon systems. This equipment is for initial issue shortages or to replace overaged and uneconomically repairable assets. EOD equipment is used by EOD personnel to render safe unexploded ordnance and improvised devices throughout the world. This equipment provides the capability to examine, identify, and render safe ordnance effectively and safely.

JUSTIFICATION: Required to procure tool sets and shop equipment to support current and increasing requirements of maintenance and weapons support units. These requirements include interchange, readiness fixing, and replacement of uneconomically repairable/unsupportable assets. The EOD equipment is urgently needed to fill unit requirements throughout the active Army, National Guard, and Army Reserve Units for rendering safe unexploded ordnance and improvised explosive devices. The EOD equipment will increase operational capabilities of EOD units as well as enhance safety of EOD personnel.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		IDENT CODE	A. Appropriation/Budget Activity Other Procurement, Army/Act 3 Other Support Equipment		B. Weapon Model/Series Items Less Than \$2.0M (Maint Equip) (ML5345)		C. Manufacturer/Location Various		D. Date February 1995
Weapon System Cost Elements	FY 94 Unit Cost		FY 95 Unit Cost	FY 96 Unit Cost	FY 97 Unit Cost	FY 94 Qty	FY 95 Qty	FY 96 Qty	
		Total Cost	Total Cost	Total Cost	Total Cost	Total Cost	Total Cost	Total Cost	Total Cost
1. Andros MK5 (RCT) E788	76980	19	1,463						
2. Shop Set, EOD E789	1035	86	89						
3. Demolition Equip F001 Set, Expl Elec & Non Elec	1746	232	405	1769	39	1822	10	1877	10
4. Torch Outfit, F065 Cutting & Welding Org Maint, Set 5	1063	32	34			786	4	809	90
5. Shop Set, Spare F079 Part Storage Field Maint, Set 1	5783	166	960	3871	62	3987	94	4107	100
6. Shop Set, Spare F080 Part Storage Field Maint, Set 2	4322	214	925		240		375		411
7. MX22 Remote G008 Firing Device	15991	109	1,743					17658	39
8. Shop Equip, Canvas G311 Glass Shop, Shelter MTD	31000	1	31			77484	2	79808	2
9. Shop Set, Welding G341 Field Maint, PCS, Set 8	12000	4	48	10989	22				689

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	IDENT CODE	A. Appropriation/Budget Activity Other Procurement, Army/Act 3 Other Support Equipment				B. Weapon Model/Series Items Less Than \$2.0M (Maint Equip) (ML5345)		C. Manufacturer/Location Various		D. Date February 1995
		FY 94		FY 95		FY 96		FY 97		
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	
10. Tool Set, Air Assault Engineer Squad G395	A	1528	11							
11. Service Kit, Power Plant Operator, 06HF G651	A	255900	1	157579	158					
12. Shop Equip, Radiator Test & Rpr G715	A	12400	2			11930	15			
13. Tool Kit, Suppl Fld Maint (EOD) G784	A		3				179			6
14. Shop Equip, Small Equip Rpr Shelter G338	A	22133	66							35
15. Brake Machine (PEND)	A			10500	8					
16. Lathe, Brake Drum S051	A	4687	150	6919	84					1
17. Lathe, Engine S053	A		703	9000	37					6
18. Cleaner, Steam Press S600	A	253000	1		256					
TOTAL			7,018		1,144		1,450			1,393

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS THAN \$2 MILLION DOLLARS					DATE: February 1995		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip) (ML5345)							
FY 95 BUDGET/APPORTIONMENT	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8346	8380	1769	39	69	FFP	RIA	JAN 95
2. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3190	3237	3871	62	240	FFP	RIA	JAN 95
3. Shop Set, Welding, Field Maint PCS Set 8 G341	42	31	33	10989	2	22	FFP	RIA	JAN 95
4. Service Kit, Power Plant Operator, 06HF G651	4	2	3	157579	1	158	FFP	RIA	JAN 95
5. Brake Machine (PEND)	60	39	46	10500	8	84	FFP	C	MAR 95
6. Lathe, Brake Drum S051	695	657	694	6919	37	256	FFP	C	MAR 95
7. Lathe, Engine S053	590	552	582	9000	35	315	FFP	C	MAR 95
TOTAL						1,144			

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS THAN \$2 MILLION DOLLARS					DATE: February 1995			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip) (ML5345)								
FY 96 BUDGET/APPORTIONMENT NOMENCLATURE/SSN		AAO	ASSETS ON-HAND	ASSETS O/H END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001		9499	8380	8385	1822	10	18	FFP	RIA	JAN 96
2. Shop Equip, Canvas & Glass Shop, Shelter MTD G311		146	132	134	77484	2	155	FFP	RIA	JAN 96
3. Torch Outfit, Cutting & Welding, Org Maint, Set 5 F065		512	304	308	786	4	3	FFP	RIA	JAN 96
4. Shop Set, Spare Part Storage Field Maint Set 1 F079		5020	3237	3316	3987	94	375	FFP	RIA	JAN 96
5. MX22 Remote Firing Device G008		350	230	262	17143	42	720	FFP	C	MAR 96
6. Shop Equip, Radiator Test & Repair, FM G715		146	93	108	11930	15	179	FFP	RIA	JAN 96
TOTAL							1,450			

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092	ITEMS LESS THAN \$2 MILLION DOLLARS		DATE: February 1995						
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip) (ML5345)							
FY 97 BUDGET/APPORTIONMENT NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	ASSETS O/HEND BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8385	8390	1877	10	19	FFP	RIA	JAN 97
2. Shop Equip, Canvas Glass Shop, Shelter MTD G311	146	134	136	79808	2	160	FFP	RIA	JAN 97
3. Torch Outfit, Cutting & Weldin Org Maint, Set 5 F065	512	308	398	809	90	73	FFP	RIA	JAN 97
4. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3316	3401	4107	100	411	FFP	RIA	JAN 97
5. MX22 Remote Firing Device G008	350	262	291	17658	39	689	FFP	C	MAR 97
6. Tool Kit, Supplemental Field Maint (EOD) G784	339	294	299	5828	6	35	FFP	RIA	JAN 97
7. Lathe, Brake Drum S051	695	694	695	6340	1	6	FFP	C	MAR 97
TOTAL						1,393			

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASS

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200)

(R03200)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	109							
COST(IN MILLIONS)	13.4							

DESCRIPTION: The compactor is a commercial item consisting essentially of articulated, diesel engine, a hydraulically controlled strike-off/dozer blade, and tamping feet or segmented impact pads on all wheels or drums.

APPROPRIATION / BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE
 ROLLER, VIBRATORY, SELF-PROPELLED (CCE)

(R03300)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY		31	47					
COST(IN MILLIONS)		5.8	7.1					

DESCRIPTION: The Vibratory Self Propelled Roller is a commercial Non-Developmental item (NDI) construction equipment roller with the capability of exchanging smooth vibratory and tamping foot compacting functions within a single base self-propelled unit. This will be accomplished by changing the complete drum system, or by applying bolt-on padfoot segments to the existing smooth drum. Roller will be capable of all modes of transportation to include airdrop and helicopter transport for airborne/air mobile units.

JUSTIFICATION: The FY 96 buy of 47 vehicles will replace old and outdated equipment and will reduce operating and sustainment (O & S) costs. Current inventory of compaction equipment ranges in age from 15 to 30 years and lacks logistics support due to old age.

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

**A. APPROPRIATION/BUDGET
ACTIVITY TITLE/NO
OTHER PROCUREMENT ARMY 3
OTHER SUPPORT EQUIPMENT**

**B. WEAPON
MODEL/SERIES/POPULAR NAME
ROLLER, VIBRATORY SELF-PROPELLED (R03300)**

**C. MANUFACTURER NAME
PLANT/CITY/STATE/LOCATION
N/A**

**D. DATE
MONTH/YEAR
February 1995**

WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY94		FY 95		QTY 31		FY 96		QTY 47		FY 97		QTY	TOTAL COST
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
HARDWARE	A			129	3999			133							6265
LOGISTIC SUPPORT					595										772
TESTING					653										75
ENGINEERING SUPPORT					370										3
SPECIAL TOOLS					38										
CONTRACTOR SUPPORT					176										
ECO					3										
TOTAL PROGRAM COST					5834										7115

P-1 SHOPPING LIST

DD Form 2446, JUN 86

ITEM NO 142 PAGE NO 2 OF 4

EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

P-1 ITEM NOMENCLATURE
 ROLLER, VIBRATORY, SELF-PROPELLED (R03300)

APPROPRIATION / BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

COST ELEMENT / FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	TO BE SELECTED	C/FP	TACOM	JUN 95	SEP 96	31	129,000	YES	NO	
FY96	TO BE SELECTED	C/FP	TACOM	FEB 96	DEC 96	47	133,298	YES	NO	

REMARKS

P-1 SHOPPING LIST

ITEM NO 142 PAGE NO 3 OF 4

DD Form 2446-1, JUL 87

EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER

(M06105)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			18	15				
COST(IN MILLIONS)			9.9	8.0				

DESCRIPTION: The Deployable Universal Combat Earth Mover (DEUCE) is a high-speed, high mobility, earth moving system capable of conducting: clearing, leveling, and excavating operations in support of mobility, countermobility, survivability, and sustainment of engineering missions.

JUSTIFICATION: The DEUCE will increase war fighting capabilities of light engineer units to support light divisions. Engineers as part of the combined arms team need a lightweight earth moving capability that does not require a prime mover and trailer for operational and tactical movement in the battlefield and is strategically deployable by air. The DEUCE must travel rapidly between job sites, travel across on paved airfields and highways without damaging the surfaces, and be capable of low velocity air drop and roll-on/roll-off from C-130 and C-141 aircraft.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)

A. APPROPRIATION/BUDGET
ACTIVITY TITLE/NO
OTHER PROCUREMENT ARMY 3
OTHER SUPPORT EQUIPMENT

B. WEAPON
MODEL/SERIES/POPULAR NAME
DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER (M06105)

C. MANUFACTURER NAME
PLANT/CITY/STATE/LOCATION
N/A

D. DATE
MONTH/YEAR
February 1995

WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
HARDWARE LOGISTIC SUPPORT CONTRACTOR ASSISTANCE SPECIAL TOOLS CAMOUFLAGE PATTERN REFURBISHMENT TESTING GOVERNMENT ENGINEERING ENGINEERING CHANGE ORDERS	B					488	8781		503		8781		7552	
							423				423		17	
							30					30		50
							20					20		395
							12					12		8014
TOTAL PROGRAM COST											9938		8014	
PROGRAM UNIT COST											552		534	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER (M06105)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	CFPW/OPTION	TACOM	JUN 96	FEB 97	18	487,833	NO	YES	Feb 96
FY 97	TO BE SELECTED	CFPW/OPTION	TACOM	FEB 97	NOV 97	15	503,467			

REMARKS

FY96 AND FY97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN FY95 WHICH IS A COMPETITIVE FFP TYPE CONTRACT.

P-1 SHOPPING LIST

DD Form 2446-1, JUL 87

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EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

CODE "B" ITEM DESCRIPTION		DATE February 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Deployable Universal Combat Earthmover		
CURRENT DEVELOPMENT AND TEST STATUS		(M06105)		
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	SCHEDULE DATE	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE 2nd qtr 96		CURRENT	LAST REPORTED	REASON FOR DELAY
EQUIPMENT ITEM(S) TO BE REPLACED D58, Tractor, Full-Tracked, Low-Speed, Diesel-Engine-Driven		Jul 95		
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Improved Transportability and Mobility: Increased Speed to 30 mph (From 7 mph)		Nov 95		
DEVELOPMENT CONTRACT INFORMATION				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR 94	BY1 96
			1.408	0.400
			1.407	
			1.407	0.400
			1.408	0.0
TOTAL RDT&E FUNDING			1.407	0.400
REMARKS MS I/11 approved on May 94: Contract Solicitation efforts on-going: Contract Award Scheduled for 2nd QTR FY 95.				
DD Form 2443, JUL 88		P-1 SHOPPING LIST		EXHIBIT P-19
ITEM NO 143		PAGE NO 4 OF 5		

REPORTS CONTROL SYMBOL
 DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

P-1 ITEM NOMENCLATURE
 CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT
 (ATEC)

(X00800)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			7	7	8	19	5	
COST (IN MILLIONS)			2.0	2.0	2.5	5.6	1.5	

DESCRIPTION: This is a commercial all terrain crane, pneumatic tired, diesel engine driven, with fully revolving superstructure and cab, and hydraulically powered telescoping boom. It shall be capable of operating with a hydraulic clamshell, grapple, pike driver and concrete bucket. It will be used to perform lifting, lowering, loading, and excavation; handling general supplies, construction materials and bridging; to support maintenance, collection and classification points, rehabilitation of maintenance routes of communication, resupply points and logistic support facilities.

JUSTIFICATION: The ALL Terrain Crane (ATC) will replace overage 20 and 25 ton cranes (rough terrain and truck mounted) in the Army inventory. The cranes are 15-28 years old. Procurement of the ATC will provide improved readiness, state-of-the-art technology and safety, and be used for peacetime disaster relief applications. The FY 96/97 funds will begin fielding of the ATC.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)

A. APPROPRIATION/BUDGET
ACTIVITY TITLE/NO
OTHER PROCUREMENT ARMY 3
OTHER SUPPORT EQUIPMENT

B. WEAPON
MODEL/SERIES/POPULAR NAME
CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)

C. MANUFACTURER NAME
PLANT/CITY/STATE/LOCATION
N/A

D. DATE
MONTH/YEAR
February 1995

WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97		TOTAL COST
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	
HARDWARE	A					218		225		1572
LOGISTICS SUPPORT										22
CONTRACTOR ASSISTANCE										4
SPECIAL TOOLS										100
TESTING										240
GOVERNMENT ENGR										5
ECO										114
TOTAL PROGRAM COST										1987

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	C/FP-REQ 5 (2)	TACOM	JUN 96	FEB 97	7	217,572	YES	NO	
FY 97	TO BE SELECTED	C/FP-REQ 5 (3)	TACOM	JAN 97	AUG 97	7	224,571			

REMARKS

FIRST YEAR CONTRACT AWARD PROCURED WITH ARMY RESERVE DEDICATED PROCUREMENT FUNDS.

UNCLASSIFIED
PRODUCTION SCHEDULE

REPORTS CONTROL SYMBOL: DO-COMP(A8)1092
 DATE: February 1995
 APPROPRIATION / BUDGET ACTIVITY: P-1 ITEM NOMENCLATURE: CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (ATEC)
 Other Procurement: Army 3
 Other Support Equipment

FACILITY NO	S E R V I C E	PROGRAM QUANTITY	ACCEPT PRIOR TO AS OF 1 OCT	BAL DUE	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			L A T E R													
					CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96																
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	EA	44	44	7																							
1	EA	7	7	7																							
1	EA	7	7	7																							
TOTAL MONTHLY PRODUCTION					58																						

FACILITY NO	MANUFACTURERS NAME & LOCATION	TO BE SELECTED	PRODUCTION RATES		MINIMUM	1-B-5	MAXIMUM	MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		REMARKS
			1-B-5	1-B-5					ADMIN LEAD TIME	MANUFACTURING AFTER 1 OCT	
1			1	25	40	6	6	12	7	11	18
								12	3	7	10

1. ARMY RESERVE VEHICLES WILL BE DELIVERED THRU JAN 1997 VIA A/R DIRECT CITE DEDICATED PROCUREMENT PROGRAM BUY.
 2. SCHEDULE ALLOWS FOR OTHER EXPECTED RESERVE AND MGR ORDERS TO BE ADDED THROUGH DEDICATED PROCUREMENT FUNDING.
 3. DELAY FOR AVARD TIED TO IMPLEMENTING "BLUEPRINT FOR CHANGE," I.E., REDUCE MIL SPECS.
 4. THE ATC WILL BE DELIVERED FROM A COMMERCIAL PRODUCTION LINE.
 5. CONTRACT IS A REQUIREMENTS TYPE ALLOWING FOR CALL UP IN JANUARY OF EACH FISCAL YEAR.

DO Form 2445, JUL 87
 P-1 SHOPPING LIST
 ITEM NO 144 PAGE NO 4 OF 5
 UNCLASSIFIED
 EXHIBIT P-21

REPORTS CONTROL SYMBOL		PRODUCTION SCHEDULE												DATE																				
DD-COMP(AR)1092		P-1 ITEM NOMENCLATURE CRANE,WHEEL MTD, 25T, 3/4 CU YD, RT (CATEC)												February 1995																				
FACILITY NO	S E R / U M V	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 99			L A T E R																	
					CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			CALENDAR YEAR 99																				
					FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	OCT	NOV	DEC	JAN	FEB	MAR		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	EA	7		25	6	6	7	7																										
1	EA			7																														
1	EA			7																														
TOTAL MONTHLY PRODUCTION				66	6	6	7	7																										
FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME			REMARKS																									
		MINIMUM	1-8-5	MAXIMUM	1-8-5	ADMIN LEAD TIME	MANUFACTURING LEAD TIME	TOTAL	PRIOR 1 OCT	AFTER 1 OCT	MANUFACTURING AFTER 1 OCT	TOTAL																						
1	TO BE SELECTED	1	25	40	6	INITIAL	REORDER	12	7	11	18																							

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
ITEMS LESS THAN \$2.0M (CONST EQ)

(ML5350)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	4.0	3.4	2.0	.4	.9	2.9	5.1	.9

DESCRIPTION: This program covers various types of Construction Equipment (CE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

JUSTIFICATION: This equipment is required so that combat engineering units will be able to build and maintain roads and facilities to support the tactical mission (i.e. Tank Defilade). Construction equipment is required to support tactical wheeled vehicles and combat equipment in the forward deployment zone by constructing maintenance, storage facilities, and roads. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure three different Commercial Construction Equipment (CCE) items (R035 - Steel Wheel Roller, X512 - Drum winch, and R071 - Nuclear Tester). These systems are priority acquisitions identified by the U.S. Army Engineer School (USAES) to replace outmoded, average equipment that is critically needed for Combat Engineer Units. They will be utilized by these TOE units for road building, port construction, and paving applications. The Nuclear Tester will be utilized by Engineer Construction units to measure the density and moisture levels in soil and asphalt samples.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (CONST EQ) (ML5350)	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION	D. DATE MONTH/YEAR February 1995 (ML5350)	TOTAL COST IN THOUSANDS OF DOLLARS									
					FY 94		FY 95		FY 96		FY 97			
					UNIT COST	QTY	TOTAL COST	UNIT COST	QTY	TOTAL COST	UNIT COST	QTY	TOTAL COST	
WEAPON SYSTEM COST ELEMENTS	IDENT CODE													
(X512) (M066) (M087) (R035) (R048) - AUGER ATTACHMENTS (M089) (R071) (M082) (M098) (R034)	A A A A B A A A A A			(13) 309 (13) 1540 (317) 1254 (81) 290 (65) 535 (200) 20		(3) 1295 (1) 25 (25) 1672 55 (10) 325		(21) 194 (17) 1200 (123) 587						(82) 397
														397
														1981
														3372
														3954

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT, ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
ITEMS LESS THAN \$2.0 M (CONST EQ)

FY 96

(ML5350)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	WINCH, DRUM (X512)	63	37	52	9238	21	194	FFP	CP	DEC 95
2	NUCLEAR TESTER (R071)	205	0	123	4772	123	587	FFP	CP	DEC 95
3	ROLLER, STEEL WH (R035)	128	128	128	70588	17	1200	FFP	OPTION	DEC 95
	TOTAL									

P-1 SHOPPING LIST

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EXHIBIT P-5a

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT, ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
ITEMS LESS THAN \$2.0 M (CONST EQ)

FY 97

(ML5350)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	NUCLEAR TESTER (R071)	205	123	205	4841	82	397	FFP	OPTION	DEC 96
	TOTAL									

P-1 SHOPPING LIST

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EXHIBIT P-5a

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE

PUSHER TUG, SMALL

(M44500)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			1	2	2			
COST (IN MILLIONS)			3.6	7.2	7.2			

DESCRIPTION: The Pusher Tug will be a steel hull craft approximately 61 feet in length with a maximum draft of 4 feet when fully loaded. It will be capable of operating in Sea State 3. This tug will be capable of reaching a minimum of 10 knots sustained speed when fully loaded, no tow in Sea State 2. It will have twin propulsors with twin diesel inboard drive, pilot house controls, five berths, dinette with seating for four and two diesel engine driven generators. The mission of this tug is to provide towing of Lighter Aboard Ships (LASH) and general barges in harbors, inland waterways, and along shorelines. It will also assist larger tugs in the performance of heavier utility work.

JUSTIFICATION: The procurement of 5 Pusher Tugs will fulfill approximately 75 percent of the Army's requirement as identified in the Army Watercraft Master Plan. There is a total requirement for 7 tugs. The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics Over The Shore. To meet this requirement, the Army needs a capability to move non-powered craft, to include LASH barges, dry and liquid barges, floating cranes, causeway sections, and lighters of all types. The barges and lighters would be moved from vessels anchored offshore into a harbor, form point to point within a harbor, or from a seaport or anchorage to an inland water port for further trans-shipment operations. The current tugboat, the Small Tug, Design 3004, is aged beyond economic maintainability. Furthermore, it is not optimal for us in pushing LASH and other barges used in cargo movement. Acquiring a dependable capability is a critical issue in the Army and has a high priority.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

PUSHER TUG, SMALL (M44500)

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME

See P-5A

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
ITEM HARDWARE	A					2,875,000	2,875	3,050,000	6,100
PROVISIONING							376		752
GOVERNMENT ENGINEERING							200		175
ENGINEERING CHANGES							75		125
TESTING							50		
TOTAL						3,576,000	3,576	3,576,000	7,152

P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

P-1 ITEM NOMENCLATURE

PUSHER TUG, SMALL

(M44500)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TBS	C/FP (OPT)	ATCOM	Apr 96	May 97	1	2,875,000	YES		
FY 97	TBS	OPTION	ATCOM	Feb 97	Sep 97	2	3,050,000	YES		

REMARKS

P1 SHOPPING LIST

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

PUSHER TUG, SMALL

(M44500)

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1082

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

S E R	U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																	
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	A	1	1																								
		2	2																								
TOTALS				3																							

REMARKS

* Annual production rate

PRODUCTION LEAD TIME

ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT
3	14	20
4	8	12

PRODUCTION RATES

MIN	* 1-8-5	MAX	MONTHS TO REACH MAX AFTER DAY
1	4	8	6

MANUFACTURERS NAME & LOCATION

TBS	INITIAL	REORDER
1	3	4

P-1 SHOPPING LIST

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EXHIBIT

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FLOATING CRANE, 100 - 250 Ton

(M32400)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY				1	1	1		
COST (IN MILLIONS)				14.9	14.9	14.9		

DESCRIPTION: The Barge Derrick (BD) will be constructed of steel and capable of off-loading existing and projected shipping through the year 2020. The BD must be transportable on Float On/Float Off (FLO/FLO) ships, have onboard self-propulsion, self-maneuvering, self-positioning capability; be capable of a minimum service speed of 4-8 knots; have living accommodations (berthing, cooking, sanitary) for 15 persons; and , have heating ventilation and air conditioning. The BD must operate on diesel and/or Jet Propellant - 8 (JP-8) fuel for 30 days without refueling. It must be operational during night operations and while soldiers are dressed in Mission Oriented Protective Posture IV (MOPP IV) clothing.

JUSTIFICATION: The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics Over The Shore (LOTS). To meet this mission, a sub-requirement is to load and discharge heavy cargo from ships and other vessels. The Barge Derrick 264B currently is used for this mission albeit it is aged beyond economical maintainability. It is approximately 40 years old. Furthermore, it was designed for unloading ships designed and built during the mid 1900's and is therefore unable to achieve the reach required by current ship designs. (i.e. Current designs are wider, longer and taller.) Procurement of the new BD is critical for the Army in support of the LOTS mission. A procurement of 3 BD's will fulfill 50 percent of the Army's requirement as identified in the Army Watercraft Master Plan (AWMP).

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FLOATING CRANE, 100-250 TON

(M32400)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME

PLANT CITY/STATE LOCATION

See P-5A

TOTAL COST IN THOUSANDS OF DOLLARS

IDENT CODE	FY 94		FY 95		FY 96		FY 97	
	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
A							13,875,000	1
								13,875
								500
								300
								150
								75

Weapon System Cost Elements

ITEM HARDWARE

PROVISIONING

GOVERNMENT ENGINEERING

ENGINEERING CHANGES

TESTING

TOTAL

14,900,000 14,900

P-1 SHOPPING LIST

UNCLASSIFIED

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CLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

P-1 ITEM NOMENCLATURE

FLOATING CRANE, 100-250 TON

DATE February 1995

(M32400)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 97	TBS	C/FP (OPT)	ATCOM	Apr 97	Jun 98	1	13,875,000	YES		

REMARKS

P1 SHOPPING LIST

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EXHIBIT P-5A

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FLOATING CRANE, 100-250 TON

(M32400)

S F A C	E A C	U M E A	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			REMARKS													
						CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99																
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	A	97	1		1																							
TOTALS						1																						

MANUFACTURERS NAME & LOCATION

MIN	1	MAX	8
1-8-5	4	MAX	8
MONTHS TO REACH MAX		AFTER D DAY	
6		6	

PRODUCTION RATES

ADMIN LEAD TIME	6
PRIOR 1 OCT	3
AFTER 1 OCT	6
MANUFACTURING TIME	15
TOTAL AFTER 1 OCT	21

PRODUCTION LEAD TIME

INITIAL	3
REORDER	6

* Annual production rate

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

(M37000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	187	241	238	297	356	398	232	393
COST (IN MILLIONS)	15.1	11.5	11.8	15.0	18.6	21.4	12.9	22.5

DESCRIPTION: Funding is for the acquisition of 68 and 89 foot railcars of a design type already approved by the Association of American Railroads (AAR). Railcars are to be prepositioned at select Army installations per the congressionally mandated Mobility Requirements Study (MRS) approved by the Joint Chiefs of Staff (JCS) in January 1992, and per the Army Strategic Mobility Plan (ASMP). As a result of a decision within the Army, used 68 and 89 foot railcars will be acquired beginning in FY 95.

JUSTIFICATION: Prepositioning of railcars at Army installations is essential for mobilization purposes, especially with the forces becoming increasingly CONUS-based. Under the ASMP, the lead brigade at select installations must be fully outloaded to the port of embarkation in C+2 days, with an entire division to be outloaded in C+6 days. Experience with the railroad industry (as evidenced during Desert Shield/Desert Storm) has shown that it takes an average time of seven to ten days to order and receive commercial railcars for outloading purposes. Additionally, industry is retiring many of their fleet of flatcars with no intention of replacement. As such, to meet the C+2 and C+6 mobilization requirements in response to regional threats/conflicts, it is essential that the Army acquire and preposition railcars at installations such as Ft. Hood, Ft. Campbell, Ft. Stewart, Ft. Bliss and Ft. Benning. The acquisition of railcars is required to outload combat and combat support equipment in the time frames required, thereby greatly enhancing our warfighting capability. FY 96 and 97 acquisitions are essential for increasing the Army's mobilization readiness state.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON (M37000)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

See P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST			
1. Hardware - 68 foot railcar	A	75087	93 6,983	47611	121 5,761	49151	122 5,996	50477	297 14,992	
2. Hardware - 89 foot railcar	A	85892	94 8,074	47611	120 5,713	49151	116 5,702		50	
3. Engineering Services	N/A		60				69			
TOTAL			15,057		11,534		11,767		15,042	

P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

(M37000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
68 Foot Railcar FY 94	AMF, Montreal, Canada	C/FP/Option	ATCOM	Jun 94	Nov 94	93	75087	YES	NO	
89 Foot Railcar FY 94	AMF, Montreal, Canada	C/FP/Option	ATCOM	Jun 94	Nov 94	94	85892	YES	NO	
68 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	121	47611	YES	NO	
89 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	120	47611	YES	NO	
68 Foot Railcar FY 96	TBS	C/FP	ATCOM	Apr 96	Oct 96	122	49151	YES	NO	
89 Foot Railcar FY 96	TBS	C/FP	ATCOM	Apr 96	Oct 96	116	49151	YES	NO	
89 Foot Railcar FY 97	TBS	C/FP	ATCOM	Apr 97	Oct 97	297	50477	YES	NO	

REMARKS The unit cost decrease beginning in FY 95 is a result of the Army decision to buy used railcars beginning in FY 95.

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PRODUCTION SCHEDULE

DATE: February 1995

(M37000)

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

S F A C	E U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			L A T E R													
				CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96																
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	A	187	187				60	60	60	7																
1	A	187	187													43	48	60	36							
2	A	241	241																							
2	A	238	238																							
2	A	297	297																							
TOTALS				1150			60	60	60	7	43	48	60	36												
MANUFACTURERS NAME & LOCATION				PRODUCTION RATES												PRODUCTION LEAD TIME			REMARKS: FY94 buy was an option to AMF, with award made in Jun 94 following completion of							
				MIN		1-8-5		MAX		MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT		FAT. Starting with FY95 buy of used railcars, a manufacturing time of 7 months is used as that is the representative lead time for taking existing cars and refurbishing them. Starting in FY95 the production rate decreases since rebuild shops production capacity is less than new car shops.								
1 AMF Technotransport, Inc.				2	60	180	2	2	2	2	2	6	12	18	8	8	8									
2 TBS				2	24	72	2	2	2	2	2	6	12	18	8	8	8									

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EXHIBIT P-21

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE: February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

(M37000)

S F A C	E A R V	U M E A	QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99						
						CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99						
						DEC	JAN	FEB	DEC	JAN	FEB	DEC	JAN	FEB				
1	A	93	187	187														
1	A	94	187	187														
2	A	95	241	241														
2	A	96	238	238	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2	A	97	297	297														
TOTALS			615	535	24	24	24	24	24	24	24	24	24	24	24	24	24	24

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME		
		MIN	1-8-5	MAX		ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER 1 OCT
1	AMF Technotransport, Inc.	2	60	180	2	6	6	6
2	TBS	2	24	72	2	7	7	13
						6	6	13
						6	6	13

REMARKS: Manufacturing time is 7 months for used railcars. The production rate decreases to 24 per month on the 1-8-5 schedule as rebuild shops do not have the production capability that new car manufacturers possess. Initial and reorder times are equal since options on used railcars cannot be done.

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1082

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1985

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (FLOAT/RAIL)

(ML5355)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	2.0	2.2	3.6	6.0	9.7	8.3	4.9	4.8

DESCRIPTION: Railroad equipment consists of locomotives, rolling stock, track maintenance equipment, etc., used to support Army ammunition plants, AMC depots, and FORSCOM/TRADOC installations in peacetime and mobilization missions.

JUSTIFICATION: Rail - acquisition of high quality used railroad equipment (e.g. locomotives, tank cars, box cars, flat cars, maintenance tool sets) for replacement of over age, logistically unsupportable assets. Acquisitions will provide a safe, secure means for the transportation and handling of hazardous materials used in the ammunition manufacture process, and in the movement of completed ammunition to distribution points. Also, acquisition of rail assets will insure compliance with ammunition production contracts and schedules, will improve the U.S. Army's ability to meet unit training requirements and will improve the capability to meet projected surge-driven scenarios for unit mobilization outloading and ammunition production. Replacement of over age assets is required per the 23 Sep 91 OASD memo, subject: Management of Intra-Installation Rail Facilities, which states that DOD components will budget for assets not meeting Federal Railroad Administration (FRA) standards. Funding in FY 96 and FY 97 will be utilized to procure railroad equipment that meets FRA standards and increases Army Ammunition Plant readiness capabilities.

P-1 SHOPPING LIST

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EXHIBIT P-40

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)

WEAPON MODEL/SERIES/POPULAR NAME

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS												
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST					
M395, Railway Car, Tank, POL	A		7	33000										
M377, Boxcar, 50 Ton (50 foot)	A	35696	56 1,999	36345	231 55 1,999	37717	53 1,999 17	39196	51 1,999 20					
M371, Flatcar, 50 Ton	A				1,603	94294	1,603	99950	1,999					
M363, Boxcar, 50 Ton (40 foot)	A							72556	27 1,959					
TOTAL			1,999		2,230				3,602					5,957

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EXHIBIT P-5

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE: February 1995

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FY 95

ITEMS LESS THAN \$2.0M (FLOAT/RAIL)

(ML5355)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M385, Railway Car, Tank, POL	569	562	569	33000	7	231	FP	C	Mar-95	
2	M377, Boxcar, 50 Ton (50 foot)	485	251	306	36345	55	1,999	FP	C	Mar-95	
TOTAL								2,230			

P-1 SHOPPING LIST

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

ITEMS LESS THAN \$2 MILLION DOLLARS

DATE: February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FY 96

ITEMS LESS THAN \$2.0M (FLOAT/RAIL)

(ML5355)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M377, Boxcar, 50 Ton (50 foot)	485	306	359	37717	53	1,999	FP	C	Mar-96	
2	M371, Flatcar, 50 Ton	64	0	17	94294	17	1,603	FP	C	Jun-96	
TOTAL								3,602			

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EXHIBIT 3

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

ITEMS LESS THAN \$ 2 MILLION DOLLARS

DATE: February 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

FY 97

ITEMS LESS THAN \$2.0M (FLOAT/RAIL)

(ML5355)

ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M377, Boxcar, 50 Ton (50 foot)	485	359	410	39196	51	1,999	FP	C	Mar-97
2	M371, Flatcar, 50 Ton	64	17	37	99950	20	1,999	FP	C	Mar-97
3	M363, Boxcar, 50 Ton (40 foot)	222	0	27	72556	27	1,959	FP	C	Jun-97
TOTAL							5,957			

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

GENERATORS AND ASSOCIATED EQUIPMENT

(MA9800)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	24.8	25.2	13.8	15.7	15.9	16.5	38.2	65.2

DESCRIPTION: Rollup of generators with varying sizes and capabilities specifically designed to provide power sources for numerous weapons, communication, medical and support systems which are designed to operate with mobile electric power.

JUSTIFICATION:

The Tactical Quiet Generators (TQG) and less than 3 KW Diesel programs are a result of DA and DOD direction to replace the current generator fleet. The current fleet is overaged, and doesn't meet current user requirements. These programs are designed to introduce into the DOD inventory a new family of generators (sizes 3 KW through 60 KW) that will satisfy the user requirements for:

1. Reduction in detection by threat forces of 80% (low operating noise and infrared suppression).
2. Improved ground mobility, lighter weight, 5, 10, and 15 kw trailers compatible with HMMWV.
3. Improved reliability and lower operating and support costs. (reduction in scheduled maintenance, reduction in fuel consumption)
4. Improved battlefield survivability (high altitude electromagnetic pulse protection).
5. Single fuel on the battlefield (diesel/JP8).
6. Reduced generator requirements (with utilization of the Distribution Illumination System Electric - DISE).

The generators and associated equipment budget line is a roll line containing some 40 separate generators, power plants/power units and associated equipment.

The TQG program will replace the current fleet of overaged, gasoline fueled generators with assets that will enhance the user's safety and survivability. These mobile generators provide electrical power to virtually every weapon, communication, medical, and combat support system in the Army inventory. All new systems procured that require electrical power will be supported by these generators.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

GENERATORS AND ASSOCIATED EQUIPMENT

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME
GENERATORS AND ASSOCIATED EQUIPMENT

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
3 KW GENERATOR SETS		0	803	0	5091	532	614	3576	3576
5KW GENERATOR SET		60	22	32	774	32	185	494	2116
10KW GENERATOR SET		307	0	143	1695	143	244	2989	2989
15KW GENERATOR SET		184	14	173	919	173	0	2659	265
30KW GENERATOR SET		150	337	147	6147	147	0	2481	265
60KW GENERATOR SET		132	196	103	4306	103	0	1987	330
POWER UNITS/POWER PLANTS		151	670	0	4661	0	262	73	4405
DISTRIBUTION ILLUMINATION SYSTEMS		100	1587	100	1587	100	161	685	1608
READINESS INCENTIVES		2649	1534	685	13761	13761	15715	15715	15715
TOTAL		24797	25206	25206	13761	13761	15715	15715	15715

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EXHIBIT P-5

ITEM NO 151

UNCLASSIFIED

DATE FEBRUARY 1995

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

GENERATOR SETS 3 KW

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

	FY 94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		903	532	614	312	324	823	1368
COST (IN MILLIONS)	0.0	5.1	3.6	3.6	1.3	1.4	3.2	5.5

DESCRIPTION: 3 KW Generator Set, Skid Mounted, Diesel Fueled Tactical Quiet Generator

JUSTIFICATION: This program will replace existing gasoline fueled generator sets with assets that increase safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power plant production program. They are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:

- Avenger
- Mobile Subscriber Equipment
- Patriot Missile
- Hawk Missile
- Multiple Launch Rocket System
- Numerous communication and combat support systems.

The programs in FY96/97 is intended to continue the production of the 3KW TQG's and match the fielding of the 5-60KW TQG's.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL

DD-COM(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE
GENERATOR SETS 3 KW

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME
TOG

Weapon System Cost Elements

TOTAL COST IN THOUSANDS OF DOLLARS

IDENT CODE	FY 94		FY 95		FY 96		FY 97	
	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
A	0	903 4516	0	532 2771	0	614 3300	0	176
	0	302	0	258	0	100	0	0
	0	98	0	100	0	208	0	0
	0	175	0	208	0	250	0	0
TOTAL	0	5091	0	3587	0	3576	0	0

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EXHIBIT P-5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

P-1 ITEM NOMENCLATURE

GENERATOR SETS 3 KW

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092
APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1989	Ferromt Corp. Bridgeport, Conn. (M851) 3/60 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	3800	5,000	Yes		
	(M536) 3/400 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	97	5,250	Yes		
1995	TBS (M581) 3/60KW	C/FP REQ4(1)	ATCOM	APR-95	AUG-96	903	5,000	Yes		
1996	TBS (M581) 3/60KW (M536) 3/400KW	C/FP REQ4(2) C/FP REQ4(2)	ATCOM ATCOM	Jan-96 Jan-96	AUG-97 AUG-97	445 87	5,175 5,383	No No	Yes Yes	Mar 95 Mar 95
1997	TBS (M581) 3/60KW (M536) 3/400KW	C/FP REQ4(3) C/FP REQ4(3)	ATCOM ATCOM	Jan-97 Jan-97	JAN-98 JAN-98	546 68	5,350 5,570	No No	Yes Yes	Mar 95 Mar 95

REMARKS
First delivery date for the FY89 buy has been extended due to First Article Test failure.
Necessary changes have been completed and testing is in progress.
Production approval scheduled for 1QFY95.

FY95 award contingent on First Article Test acceptance.
FY96 contract is a new requirements type contract with delivery order options for FY96, FY97 & FY98.

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

GENERATOR SET 5KW TQG

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
	60	22	32	185	182	191	482	905
QUANTITY	1.0	.8	.5	2.1	2.1	2.3	5.7	9.1

DESCRIPTION: 5 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged gasoline/diesel generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signature suppression. Some of these generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:

MISSILE/AIR DEFENSE SYSTEMS:

- Hawk Missile Systems
- Tow Missile Systems
- Patriot Missile System
- Avenger
- Multiple Launch Rocket System

SUPPORT SYSTEMS:

- Helicopters (AH-64, AH-1)
- Command and Control Centers

COMMUNICATION SYSTEMS:

- MSE
- Radio Terminal Systems (BCR 11)
- Radio Relay/Repeater Systems
- Satellite Communication Systems
- Combat Computer Systems

NOTE: Due to the component commonality in the 5 & 10KW, they are to be procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL

DD-COMPAR 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE
GENERATOR SET 5KW TO

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME

TQG

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	A	60	60	22	22	32	32	185	185
2. Engineering Government		527	527	193	193	303	303	1804	1804
3. Data		140	140	430	430	137	137	123	123
4. Engineering Change Orders		60	60	51	51	32	32	50	50
5. Acceptance Testing		61	61	50	50	22	22	14	14
		249	249	50	50	0	0	125	125
TOTAL			1037		774		494		2116

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 REPORTS CONTROL SYMBOL
 DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

 APPROPRIATION /BUDGET ACTIVITY
 Other Procurement: Army 3

P-1 ITEM NOMENCLATURE

Other Support Equipment

GENERATOR SET 5 KW TQG

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1994	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	60	8,784	Yes		
1995	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	22	8,784	Yes	No	
1996	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jun 97	32	9,467	Yes	No	
1997	TBS (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan-97	Jul 98	185	9,752	No	Yes	Mar 96

REMARKS

Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.

FY94 contract is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test.

FY97 contract is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has First Article Test.

Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.

P1 SHOPPING LIST

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UNCLASSIFIED

PRODUCTION SCHEDULE

DATE FEBRUARY 1996

P-1 ITEM NOMENCLATURE

GENERATOR SET 5 KW TQG

REPORTS CONTROL SYMBOL
DD-COMP(AIR) 1082

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

S E R C	U/M EA FY QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 A	94 60		60																								
1 MC	94 806		806																								
1 FMS	94 650		650																								
1 A	95 22		22				A																				
1 AF	95 266		266					A																			
1 MC	95 225		225						A																		
1 A	96 32		32							A																	
1 A	97 185		185																								
TOTALS	2246		2246																								

F A C	MANUFACTURERS NAME & LOCATION	RATES		MONTHS TO REACH MAX AFTER D DAY	ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER '1 OCT
		MIN	MAX		PRIOR '1 OCT	AFTER 1 OCT			
1	FERMONT, BRIDGEPORT, CT	150	750	8	6	4	18	22	
2	TBS				4	4	12	16	

REMARKS
ARE FOR COMBINED 5&10KW PRODUCTION. FY94
AWARD SLIPPED TO JAN 95. SECOND ORDER QTY
SCHEDULED FOR AWARD MAY 95.
THE PRODUCTION RATES NOTED

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092			UNCLASSIFIED		PRODUCTION SCHEDULE												DATE FEBRUARY 1995															
P-1 ITEM NOMENCLATURE															GENERATOR SET 5KW																	
ACCEP PRIOR TO 1 OCT			BAL DUE AS OF 1 OCT			FISCAL YEAR 97				FISCAL YEAR 98				FISCAL YEAR 99				FISCAL YEAR 00														
S E U/M EA			FY QTY			CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99				CALENDAR YEAR 00														
F A R			C V			OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC				OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC				OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC				OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC														
1 MC 94			806			50 50 50 56				33 66 86																						
1 FMS 94			650			50 50																										
2 A 97			185																													
TOTALS			1100			541				33 66 86																						
MANUFACTURERS NAME & LOCATION															PRODUCTION RATES												MONTHS TO REACH MAX AFTER D DAY					
1 FERMON, BRIDGEPORT, CT															MIN			1-8-5			MAX			8								
2 TBS															150			265			750			8								
															INITIAL			6 4			4			22								
															REORDER			4 4			12			16								
															ADMIN LEAD TIME												MANUFACTURING TIME			TOTAL AFTER '1 OCT		
															P-1 SHOPPING LIST												18			22		
															REORDER												4			16		
															REMARKS												THE PRODUCTION RATES NOTED ARE COMBINED FOR 5 AND 10KW PRODUCTION SIMILAR TO 1573060KW.					

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
GENERATOR SET 10KW TQG

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	307	0	143	244	242	234	620	1134
	4.9	2	1.7	2.9	3.2	3.2	7.9	14.3

DESCRIPTION: 10 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ.

JUSTIFICATION: This program will replace existing generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signal suppression. These generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:

- MISSILE/AIR DEFENSE SYSTEMS:
- Hawk Missile Systems
 - Tow Missile Systems
 - Patriot Missile System
 - Avenger
 - Multiple Launch Rocket System

- SUPPORT SYSTEMS:
- Helicopters (AH-64, AH-1)
 - Laundry Units
 - Command and Control Centers

- COMMUNICATION SYSTEMS:
- MSE
 - Radio Terminal Systems (BCR 11)
 - Radio Relay/Repeater Systems
 - Satellite Communication Systems
 - Combat Computer Systems

NOTE: Due to the component commonality in the 5 and 10 KW, they are procured under the same contract and produced on same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

P-1 SHOPPING LIST

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EXHIBIT P-40

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE
GENERATOR SET 10KW

WEAPON MODEL/SERIES/POPULAR NAME

TQG

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

TOTAL COST IN THOUSANDS OF DOLLARS

Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Quantity TOTAL COST
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	
1. Item Hardware	A		307 3656	0 0		143 1511				244 2709
2. Engineering Government			714	112		127				138
3. Data			177	50		35				75
4. Engineering Change Orders			208	25		22				14
5. Acceptance Testing			158	0		0				53
TOTAL			4913	187		1695				2989

P-1 SHOPPING LIST

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EXHIBIT P-5

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE
GENERATOR SET 10KW TQG

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1994	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	307	11,909	YES		
1996	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (2)	ATCOM	Jan-96	Jan-97	143	10,566	Yes	No	
1997	TBS (M529) 10/60KW (M565) 10/400KW	C/FP REQ 3 (1) (1)	ATCOM ATCOM	Jan-97 Jan-97	Jul-98 Jul-98	226 18	10,884 13,888	No No	Yes Yes	Mar 96 Mar 96

REMARKS

FY94 is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test.

FY97 is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has First Article Test.

Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.

Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.

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EXHIBIT P-5A

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PRODUCTION SCHEDULE

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

GENERATOR SET 10KW

S E R V	U M E A QTY	ACCE PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			REMARKS												
				CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97															
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL	AUG	SEP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	307	307																						
1	MC	120	120																						
1	FMS	92	92																						
1	N	95	95																						
1	A	143	143																						
2	A	244	244																						
TOTALS				1575	1001																				
MANUFACTURERS NAME & LOCATION				PRODUCTION RATES			MONTHS TO REACH MAX AFTER DAY			PRODUCTION LEAD TIME			THE PRODUCTION RATES NOTED ARE FOR COMBINED 58&10KW PRODUCTION.												
FERMONT, BRIDGEPORT, CT				MIN	1-8-5	MAX	ADMIN LEAD TIME			MANUFACTURING TIME				TOTAL AFTER '1 OCT											
				150	265	750	PRIOR '1 OCT	AFTER 1 OCT	TOTAL																
2 TBS							6	4	4	18	22	16													
							4	4	4	12															

REPORTS CONTROL SYMBOL
DD-COMPIAR 1092

PRODUCTION SCHEDULE

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

GENERATOR SET 10KW

S E F A C 1	U M E A Q T Y	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			L A T E R																				
				97	98	99	97	98	99	97	98	99	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP								
	244		244																																							
TOTALS				1331	244							30	84	90	40																											

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER DAY		PRODUCTION LEAD TIME				TOTAL AFTER '1 OCT			
		MIN	1-8.5	MAX	REACH	AFTER	ADMIN	MANUFACTURING	PRIOR	AFTER	INITIAL	REORDER		
1	TBS	150	265	750	8						6	4	18	22
											4	4	12	16

REMARKS THE PRODUCTION RATES NOTED ARE COMBINED FOR 58.10KW PRODUCTION. FY94 AWARD JAN 95.

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

GENERATOR SETS 15 KW TQG

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	184	14	173	0	49	51	197	294
COST (IN MILLIONS)	4.1	0.9	2.7	0.3	1.0	1.2	3.2	4.8

DESCRIPTION: 15 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:

MISSILE/AIR DEFENSE SYSTEMS

- Hawk Missile
- Tow Missile
- Patriot Missile
- Avenger

COMMUNICATION SYSTEMS

- Mobile Subscriber Equipment
- Radio Relay/Repeater Systems
- Satellite Communication Systems

SUPPORT SYSTEMS

- Water Purification Systems
- Helicopters
- Modular Print System
- Medical Systems
- Command and Control Centers

NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line. Engineering support cost for the TQG programs are not independent, but must be considered in the total to maintain program integrity.

REPORTS CONTROL SYMBOL		UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE FEBRUARY 1995			
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE		GENERATOR 15KW					
APPROPRIATION /BUDGET ACTIVITY		MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME					
Other Procurement: Army 3		PLANT CITY/STATE LOCATION		TOG					
Other Support Equipment									
Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY94 UNIT COST	Quantity TOTAL COST	FY95 UNIT COST	Quantity TOTAL COST	FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	A		184 2,517		14 202		173 2428		0 0
2. Engineering Government			542		217		114		130
3. Eng Change Orders			332		200		86		21
4. Acceptance Testing			443		200		0		0
5. Data			212		100		31		114
TOTAL			4,046		919		2659		265
		P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages		EXHIBIT P-6	
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DATE FEBRUARY 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

P-1 ITEM NOMENCLATURE
GENERATOR SET 15KW TQG

REPORTS CONTROL SYMBOL
DD-COM(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1994	Fermont, Bridgeport, CT (M549) 15/60KW (M526) 15/400	C/FP REQ 3 (1) (1)	ATCOM ATCOM	JAN -95 JAN-95	JUL-96 JUL-96	84 100	12,785 14,432	Yes Yes		
1995	Fermont, Bridgeport, CT (M526) 15/400KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov-96	14	14,429	Yes	No	
1996	Fermont, Bridgeport, CT (M549) 15/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jan-97	173	14,035	Yes	No	

REMARKS Fy94 is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test. Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE SEPTEMBER 1994

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

GENERATOR SET 15KW TQG

S E R V	U/ME A	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98														
				CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	184	184																								
1	A	14	14																								
1	A	75	75																								
1	A	173	173																								
TOTALS				446																							

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME			REMARKS																											
		MIN	1-8-5	MAX	REACH MAX AFTER D DAY	ADMIN LEAD TIME		MANUFACTURING TIME	TOTAL AFTER																												
		75	240	750	8	PRIOR 1 OCT	AFTER 1 OCT																														
1	FERMONT, BRIDGEPORT, CT																																				

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BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
P-1 ITEM NOMENCLATURE
Other Procurement: Army 3
Other Support Equipment

GENERATOR SETS 30 KW TQG

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	150	337	147	0	60	50	161	231
COST (IN MILLIONS)	3.8	6.1	2.5	0.3	1.3	1.1	3.0	4.3

DESCRIPTION: 30 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:

- | | | |
|---|--|---|
| <p>MISSILE/AIR DEFENSE SYSTEMS</p> <ul style="list-style-type: none"> - Hawk Missile - Tow Missile - Patriot Missile - Avenger | <p>COMMUNICATION SYSTEMS</p> <ul style="list-style-type: none"> - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems | <p>SUPPORT SYSTEMS</p> <ul style="list-style-type: none"> - Water Purification Systems - Helicopters - Modular Print System - Medical Systems - Command and Control Centers |
|---|--|---|

NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line. The same is also true for the 15kW set for either the 30&60kW or the 5&10kW TQG assembly line. Engineering support cost for the TQG programs are not independent but must be considered in the total to maintain program integrity.

REPORTS CONTROL SYMBOL		UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE FEBRUARY 1995			
DD-COMP/ARJ 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT		P-1 ITEM NOMENCLATURE					
APPROPRIATION /BUDGET ACTIVITY		WEAPON MODEL/SERIES/POPULAR NAME		P-1 ITEM NOMENCLATURE					
Other Procurement: Army 3		TOG		GENERATOR 30KW					
Other Support Equipment		MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME					
		PLANT CITY/STATE LOCATION							
Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY94 UNIT COST	Quantity TOTAL COST	FY95 UNIT COST	Quantity TOTAL COST	FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	A	150	2,761	337	5,971	147	2,353	0	0
2. Engineering Government		232		88		85		130	
3. Eng Change Orders		116		88		43		21	
4. Acceptance Testing		538		0		0		114	
5. Data		112		0		0			
TOTAL		3,759		6,147		2481		265	

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EXHIBIT P-5

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
GENERATOR SET 30KW TQG

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1994	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	150	18,407	Yes		
1995	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	337	17,718	Yes	No	
1996	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jan-97	147	16,007	Yes	No	

REMARKS

FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.

P1 SHOPPING LIST

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EXHIBIT P-5A

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE FEBRUARY 95

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

GENERATOR SETS 30KW TQG

S E R V	U/MEA	QTY	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98																	
				CALENDAR YEAR 95			CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	94	150																								
1	AF	94	238																								
1	MC	94	186																								
1	A	95	337																								
1	AF	95	181																								
1	MC	95	120																								
1	N	95	25																								
1	A	96	147																								
TOTALS				1384																							

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX		ADMIN LEAD TIME		TOTAL AFTER 1 OCT	REMARKS
		MIN	1-8-5	MAX	REACH MAX	AFTER D DAY	PRIOR AFTER 1 OCT	MANUFACTURING TIME		
		75	240	750	8	4	18			
1	FERMONT, BRIDGEPORT, CT								22	SCHEDULE. PRODUCTION RATES ARE COMBINED FOR THE 15, 30, 60KW. FY94 award in Jan 95. All deliveries of the prior year contracts completed by Aug 95.
2									16	

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE

REPORTS CONTROL SYMBOL
DD-COM(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

GENERATOR SETS 60 KW TQG

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	132	196	103	0	32	50	99	209
COST (IN MILLIONS)	4.1	4.3	2.0	0.3	1.0	1.5	2.2	4.3

DESCRIPTION: 60 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:

MISSILE/AIR DEFENSE SYSTEMS

- Hawk Missile
- Tow Missile
- Patriot Missile
- Avenger

COMMUNICATION SYSTEMS

- Mobile Subscriber Equipment
- Radio Relay/Repeater Systems
- Satellite Communication Systems

SUPPORT SYSTEMS

- Water Purification Systems
- Helicopters
- Modular Print System
- Medical Systems
- Command and Control Centers

NOTE: Due to component commonality the 15,30,60kW are procured under the same contract and produced on the same assembly line. Engineering support cost for the 15, 30, 60KW programs are not independent but must be considered in the total to maintain program integrity.

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EXHIBIT P-40

REPORTS CONTROL SYMBOL		UNCLASSIFIED										DATE FEBRUARY 1995	
DD-COMP/ARJ 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT											
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE											
Other Procurement: Army 3		GENERATOR TOR 60 KW											
Other Support Equipment		WEAPON MODEL/SERIES/POPULAR NAME											
		TOG											
		MANUFACTURER NAME					PLANT CITY/STATE LOCATION						
Weapon System Cost Elements	IDENT CODE	FY94		FY95		FY96		FY97		TOTAL COST		Quantity	TOTAL COST
		UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity		
1. Item Hardware	A		132		196		103					0	0
			2,346		3,496		1,893					0	0
2. Engineering Government			363		300		53					130	
3. Eng Change Orders			258		200		30					86	
4. Acceptance Testing			772		200		0					0	
5. Data			312		110		11					114	
TOTAL			4,051		4,306		1,987					330	

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EXHIBIT P-5

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					DATE FEBRUARY 1995			
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-1 ITEM NOMENCLATURE GENERATOR SET 60KW TQG								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1994	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul-96	70	16,553	Yes		
	(M531) 60/400KW	(1)	ATCOM	Jan-95	Jul-96	62	19,154	Yes		
1995	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	196	17,841	Yes		
1996	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	May-97	103	18,377	Yes		
REMARKS FY94 is a new 3-year requirements type contract with delivery order options in FY94-85-96. FY94 contract has First Article Test,										
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BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR) 1092

P-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

PRODUCTION OF POWER UNITS AND POWER PLANTS

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	151	670	0	262	268	266	687	1149
COST (IN MILLIONS)	4.2	4.7	0.1	4.4	4.4	4.4	11.8	21.7

DESCRIPTION: Depot Manufacturing Program: Chassis trailers are procured from TACOM. Electronic components and raw materiel are procured by depot. From these items the Power Units and Power Plants are assembled. These assemblies are completed when Tactical Quiet Generators, procured by ATCOM, are installed on the trailer interface. Power unit consist of 1 ea TQG mounted on 1 ea trailer interface. Power Plants consist of 2 ea TQG mounted on 1ea or 2 ea trailer interfaces with a paralleling switch box installed.

JUSTIFICATION: This program will replace existing sets with TQG assets designed to provide greater reliability, quieter operation, extended mean-time-between failure, and replace overaged diesel and gasoline fueled assets.

Total package fielding of the following systems are dependent upon these power unit/power plant configurations:

- MSE
- Aviation Systems
- Hawk Missile Systems
- Patriot Missile Systems
- Bradley Infantry Fighting Vehicle
- Multiple Launch Rocket Systems
- Computer Systems
- Avenger
- Satellite Communication Systems
- Battlefield Communications Systems (BCR 11)

System Sustainment is critical for such items as:

- Air Defense Systems
- Radio Relay/Repeater Systems
- Radio Terminal Systems
- MSE
- Aviation Systems
- Missile Systems
- Medical Systems
- Command and Control Centers
- Combat Support Systems

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE
PRODUCTION OF POWER UNITS AND POWER PLANTS

MANUFACTURER NAME
PLANT CITY/STATE LOCATION

WEAPON MODEL/SERIES/POPULAR NAME

TQG

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	A		151 1708		670 4337		0 0		262 4118
2. Engineering Government			700		145		73		100
3. Data			600		83		0		95
4. Engineering Change Orders			700		50		0		100
5. Acceptance Testing			534		50		0		84
TOTAL			4242		4665		73		4497

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

PRODUCTION OF POWER UNITS AND POWER PLANTS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQD	IF YES, WHEN AVAILABLE
1994	Tobyhanna A.D. Tobyhanna, Pa (M510) PU-806 Production Trailer M200A1	WR	ATCOM	Mar-94	Sep-95	31	14,528	Yes		
	(R627) PU-797 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	100	9,353	Yes		
	(M506) AN/MJQ-42 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	18,507	Yes		
	(M548) AN/MJQ-43 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	13,688	Yes		

REMARKS

Unit cost includes for production includes: depot procurement of electrical components and raw materials, and cost of trailer. manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp.

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

PRODUCTION OF POWER UNITS AND POWER PLANTS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1995	Tobyhanna A.D. Tobyhanna, Pa (M591) PUJ-798 Production Trailer M116A3	WR	ATCOM	Mar-95	Sep 96	331	6,353	Yes		
	(NYA) PU-801 Production Trailer M103A3	WR	ATCOM	Mar-95	Sep 96	38	6,284	Yes		
	(M500) PU-802 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	77	6,284	Yes		

REMARKS

Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY 95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

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EXHIBIT 5A

UNCLASSIFIED										DATE
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										FEBRUARY 1995
P-1 ITEM NOMENCLATURE										
PRODUCTION OF POWER UNITS AND POWER PLANTS										
REPORTS CONTROL SYMBOL	DD-COMP(AR) 1092									DATE
APPROPRIATION/BUDGET ACTIVITY	Other Procurement: Army 3									
Other Support Equipment										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1995	Tobyhanna A.D. Tobyhanna, Pa (M543) PU-803 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	121	6,153	Yes		
	(M519) AN/MJQ-40 Production Trailer M200A1(2)	WR	ATCOM	Mar-95	Sep 96	10	18,303	Yes		
	(M509) PU-805 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	91	6,153	Yes		
	(M563) AN/MJQ-39 Production Trailer M200A1(2)	WR	ATCOM	Mar-95	Sep 96	1	18,303	Yes		
	(M563) PU-800 Production	WR	ATCOM	Mar-95	Sep 96	1	5,685	Yes		
REMARKS										
Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).										
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3
Other Support Equipment

Production of Power Units and Power Plants

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1997	TBS (M506) AN/MJQ-42 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	6	14,703	No	Yes	Mar 96
	(M548) AN/MJQ-43 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	5	20,900	No	Yes	Mar 96
	(R627) PU-797 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	36	11,395	No	Yes	Mar 96
	(M541) AN/MJQ-35 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	14	20,500	No	Yes	Mar 96
	(M662) AN/MJQ-36 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	11	23,150	No	Yes	Mar 96

REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators.
FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Production of Power Units and Power Plants

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1997	TBS (M590) AN/MJQ-37 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	46	23,100	No	Yes	Mar 96
	(M570) PU-799 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	23,100	No	Yes	Mar 96
	(M500) PU-802 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	39	13,700	No	Yes	Mar 96
	(M563) AN/MJQ-39 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	14,000	No	Yes	Mar 96
	(M543) PU-803 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	10	14,700	No	Yes	Mar 96

REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts.
Deliveries will be concurrent with the TQG Generators.
FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

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DATE FEBRUARY 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

P-1 ITEM NOMENCLATURE

Production of Power Units and Power Plants

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1997	TBS (M519) AN/MJQ-40 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	10	14,000	No	Yes	Mar 96
	(M509) PU-805 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	15	13,800	No	Yes	Mar 96
	(M511) AN/MJQ-41 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	3	33,000	No	Yes	Mar 96
	(M510) PU-806 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	6	13,500	No	Yes	Mar 96
	(M595) PU-804 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	11,500	No	Yes	Mar 96

REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators.
FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

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REPORTS CONTROL SYMBOL
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE FEBRUARY 1995

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Production of Power Units and Power Plants

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1997	TBS (R591) PU-798 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	55	11,000	No	Yes	Mar 96

REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts.

Deliveries will be concurrent with the TQG Generators.

FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

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ITEM NO 151

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

DEPOT MANUFACTURE OF POWER UNITS AND POWER PLANTS

S E R	U/MEA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 100													
				CALENDAR YEAR 98			CALENDAR YEAR 99			CALENDAR YEAR 100													
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP								
1	A 97	262	262	100	100	62																	
TOTALS							100	100	62														

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME		REMARKS															
		MIN	1-8-5	MAX	REACH MAX	AFTER D DAY	ADMIN LEAD TIME	MANUFACTURING TIME		TOTAL AFTER '1 OCT														
1	TOBYHANNA ARMY DEPOT PA	75	200	300	8	8																		
2	TBS	75	200	300	8	8																		

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EXHIBIT P-21

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Army: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL
(DISE)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	0.1	1.6	2.1	32	0.1	0.1	0	0

DESCRIPTION: Distribution Illumination System Electrical is used to redistribute power from either a single generator or larger feeder system to multiple power users.

JUSTIFICATION: Will be fielded in conjunction with Tactical Quiet Generators to support numerous communications, weapons, and medical systems. Distribution systems are planned to reduce the number of generators required by the Army by distributing power from one generator to multiple power requirements. Systems supported by this item include: Joint Tactical Fusion, Satellite Communications, Deployable Medical System, and most Table Organization and Equipment TQG applications.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)		WEAPON MODEL/SERIES/POPULAR NAME DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)			
MANUFACTURER NAME PLANT CITY/STATE LOCATION		TOTAL COST IN THOUSANDS OF DOLLARS					
Weapon System Cost Elements	IDENT CODE	FY 94	Quantity	FY 95	Quantity	FY 96	Quantity
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1. HARDWARE			0	452	2.1	32	32
2. GOVERNMENT ENGINEERING			100	1587	100	161	161
TOTAL			100	1587	100	161	161

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		UNCLASSIFIED						DATE FEBRUARY 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1995	Federal Prison Industries 40 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	38	6,303	YES	NO	
	60 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	87	4,802	YES	NO	
	100 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	20	5,851	YES	NO	
	200 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	13	9,369	YES	NO	
	KIT ELEC UTIL (R62800)	SS/FP	ATCOM	Mar 95	Jan 96	294	2,357	YES	NO	
1996	Federal Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 96	Nov 96	21	4,802	#REFI	NO	
1997	Federal Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 97	Nov 97	32	5030	YES	NO	
REMARKS										
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DATE FEBRUARY 1995

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL

S F A C	U M E A	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95												FISCAL YEAR 96												FISCAL YEAR 97												L A T E R
				CALENDAR YEAR 94				CALENDAR YEAR 95				CALENDAR YEAR 96				CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99																
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
								A												A								A												
1	A	452	452																																			21		
1	A	21	21																																					
1	A	32	32																																					
TOTALS																																							32	

F A C	MANUFACTURERS NAME & LOCATION		PRODUCTION RATES				MONTHS TO REACH MAX AFTER D DAY				PRODUCTION LEAD TIME			REMARKS			
			MIN		MAX		REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME	TOTAL AFTER '1 OCT					
	1	2	10	52	1-8-5	200	8	PRIOR '1 OCT	AFTER 1 OCT	INITIAL REORDER	4	4	12	16			
	FEDERAL PRISON INDUSTRIES																
1	2	FEDERAL PRISON INDUSTRIES		10	52	1-8-5	200	8	PRIOR '1 OCT	AFTER 1 OCT	INITIAL REORDER	4	4	12	16	FY 95 AWARD DELAYED DUE TO RESTRUCTURING OF TOTAL PROGRAM TO FUND 3KW CONTRACTOR PRICE ADJUSTMENT.	

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement, Army
Activity 3: Other Support Equipment

Generator Readiness Incentives

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	2.6	1.5	0.6	1.6	1.5	1.3	1.2	1.2

Description: Supports numerous generator improvement programs: Sample Data Collection, Disassembly of Power Units and Power Plants, Generator Systems Assessments, production engineering, and various testing on generator systems, that are not separately authorized.

Justification

	FY 95	FY96	FY 97
SAMPLE DATA COLLECTION	0.610	0.200	0.600
CONTRACT/FIELDING SUPPORT	0.574	0.140	0.658
SYSTEM ASSEMENT	0.350	0.345	0.350
	1.534	0.685	1.608

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REPORTS CONTROL SYMBOL
DD-COMP(CAR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
TRUCK, FORK LIFT, DE, PT, RT, 50000 LB
(RTCH)

(M41200)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			33				20	16
COST(IN MILLIONS)			11.0				6.0	5.0

DESCRIPTION: The Rough Terrain Container Handler (RTCH) provides a capability of handling the 8' wide family of containers weighing up to 50,000 pounds and 20' and 40' long. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording in up to 5' of saltwater. The RTCH is a modified commercial design.

JUSTIFICATION: The U.S. Army inventory now contains equipment that has demonstrated poor reliability due to age during operation Desert Storm (Kuwait) and Restore Hope (Somalia) and is becoming immensely difficult to support as repair parts become harder to obtain and more costly from commercial sources. This vehicle is used by terminal transfer, ammo companies, ammo plants, and depots.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT P - 5

A. APPROPRIATION/BUDGET
ACTIVITY TITLE/NO
OTHER PROCUREMENT ARMY 3
OTHER SUPPORT EQUIPMENT

B. WEAPON
MODEL/SERIES/POPULAR NAME
TRUCK, FORK LIFT, DE, PT, RT 50000 LB (M41200)
(RTCH)

C. MANUFACTURER NAME
PLANT/CITY/STATE/LOCATION
N/A

D. DATE
MONTH/YEAR
February 1995

WEAPON SYSTEM COST ELEMENTS	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						QTY	TOTAL COST		
		FY 94		FY 95		FY 96				FY 97	
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			UNIT COST	TOTAL COST
HARDWARE	A					310		10230			
LOGISTICS SUPPORT								100			
GOVERNMENT ENGINEERING								598			
TOTAL PROGRAM COST								10928			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)
(RTCH)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
FY 96	TO BE SELECTED	C/FP/OPT	TACOM	JAN 96	JUN 96	33	310,000	YES	NO	

REMARKS

FY 96 is an option to an Air Force contract.

P-1 SHOPPING LIST

DD Form 2446-1, JUL 87

ITEM NO 152 PAGE NO 3 OF 4

EXHIBIT P - 5A PROCUREMENT HISTORY AND PLANNING

UNCLASSIFIED
 REPORTS CONTROL SYMBOL DD-COMP(AR)1092
 PRODUCTION SCHEDULE
 DATE February 1995

P-1 ITEM NOMENCLATURE
 TRUCK, FORK LIFT, DE, PT, RT, 50000 LB
 (RTCH)

FACILITY NO	S E R V I C E / U M / E A	PROGRAM QUANTITY	ACCEPT PRIOR TO AS OF 1 OCT	BAL DUE 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99															
					CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99															
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	EA	33	33																										
TOTAL MONTHLY PRODUCTION					33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER 0 DAY	PROCUREMENT LEAD TIME		REMARKS
		MINIMUM	MAXIMUM		ADMIN LEAD TIME	MANUFACTURING TIME	
1	TO BE SELECTED	3	10	6	PRIOR 1 OCT	AFTER 1 OCT	TOTAL AFTER 1 OCT
					12	4	16
					REORDER 12	3	6
							9

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
ALL TERRAIN LIFTING ARTICULATED SYSTEM

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			112	157				
COST (IN MILLIONS)			14.4	16.6				

(M41800)

DESCRIPTION: The ALL Terrain Lifter Articulated System (ATLAS) is a rough terrain forklift which has the same mobility and speed as the 6,000 lb (6K) variable reach rough terrain forklift and can perform the functions required of the current Army standard 10,000 lb (10K) rough terrain forklifts.

JUSTIFICATION: Current 6,000 and 10,000 lb rough terrain forklifts assigned to Quartermaster Units are not capable of stuffing and unstuffing 20 foot International Standardization Organization (ISO) containers. The current 10,000 lb forklift requires major disassembly and use of a special kit for air transport by C-130 aircraft. The ATLAS operational concept requires use throughout the theater to expedite logistical support functions. All classes of supply will be handled.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)

A. APPROPRIATION/BUDGET
ACTIVITY TITLE/NO
OTHER PROCUREMENT ARMY 3
OTHER SUPPORT EQUIPMENT

B. WEAPON
MODEL/SERIES/POPULAR NAME
ALL TERRAIN LIFTING ARTICULATED SYSTEM (M41800)

C. MANUFACTURER NAME
PLANT/CITY/STATE/LOCATION
N/A

D. DATE
MONTH/YEAR
February 1995

WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97		TOTAL COST
		UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	
HARDWARE	B					99		11124		15885
DOCUMENTATION								850		
REFURBISHMENT								500		
SPECIAL TOOLS								149		56
TESTING								1073		
ENGINEERING SUPPORT								695		623
ENGINEERING CHANGE ORDERS								12		25
TOTAL PROGRAM COST								14403		16589

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

P-1 ITEM NOMENCLATURE
ALL TERRAIN LIFTING ARTICULATED SYSTEM (M41800)

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	CFPM/OPTION	TACOM	JUN 96	NOV 96	112	99,321	NO	YES	MAY 96
FY 97	TO BE SELECTED	CFPM/OPTION	TACOM	MAR 97	AUG 97	157	101,178			

REMARKS

FY 96 AND FY 97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN FY 95 WHICH IS A COMPETITIVE FFP REQUIREMENTS TYPE CONTRACT.

<p>CODE "B" ITEM DESCRIPTION</p>	<p>DATE February 1995</p>	<p>REPORT CONTROL SYMBOL DD-COMP(AR)1092</p>															
<p>APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment</p>	<p>P-1 ITEM NOMENCLATURE All-Terrain Lifter Articulated System (M41800)</p>																
<p>CURRENT DEVELOPMENT AND TEST STATUS</p>																	
<p>DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS</p>	<p>PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL</p>	<p>SCHEDULE DATE REASON FOR DELAY</p>															
<p>CURRENT Nov 95</p>	<p>LAST REPORTED</p>	<p>REASON FOR DELAY</p>															
<p>ESTIMATED DATE OF APPROVAL FOR SERVICE USE May 96</p>																	
<p>EQUIPMENT ITEM(S) TO BE REPLACED 10,000 lb Rough Terrain Forklift</p>																	
<p>EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Introduces Variable Reach Capability for Stuffing and Unstuffing 20 Foot International Standardization Organization (ISO) Containers and 463L Pallet Handling capabilities to Quartermaster, Transportation, Ordnance, Missile and Munitions, Engineering, Aviation and Medical Units.</p>																	
<p>DEVELOPMENT CONTRACT INFORMATION</p>																	
<p>CONTRACTOR NAME</p>	<p>PLANT LOCATION</p>	<p>RD&E FUNDING PROFILE (\$ IN MILLIONS)</p>															
<p>All In-House To Be Selected</p>	<p></p>	<table border="1"> <thead> <tr> <th>THRU FYR 94</th> <th>CY 95</th> <th>BY1 96</th> <th>BY2 97</th> <th>BEYOND BY'S</th> </tr> </thead> <tbody> <tr> <td>1.000</td> <td>6.615</td> <td>1.269</td> <td></td> <td></td> </tr> <tr> <td>1.000</td> <td>6.615</td> <td>1.269</td> <td></td> <td></td> </tr> </tbody> </table>	THRU FYR 94	CY 95	BY1 96	BY2 97	BEYOND BY'S	1.000	6.615	1.269			1.000	6.615	1.269		
THRU FYR 94	CY 95	BY1 96	BY2 97	BEYOND BY'S													
1.000	6.615	1.269															
1.000	6.615	1.269															
<p>TOTAL RD&E FUNDING</p>	<p></p>	<p></p>															
<p>REMARKS MILESTONES</p>																	
<p>M/S III (Production Decision) FUE</p>	<p>PLANNED May 96 Oct 97</p>	<p>ACTUAL</p>															
<p>DD Form 2443, JUL 88</p>																	
<p>P-1 SHOPPING LIST</p>																	
<p>ITEM NO 153</p>	<p>PAGE NO 4 OF 5</p>	<p>EXHIBIT P-19</p>															

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
ITEMS LESS THAN \$2.0M (MHE)

(ML5365)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	5.8	4.7	2.8	2.8	1.8	1.8	2.0	2.0

DESCRIPTION: This program covers the various types of Material Handling Equipment (MHE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

JUSTIFICATION: This program is required to fill existing backorders and high priority shortages in Army Units, AMC maintenance depots and ammunition storage facilities. This critical combat support equipment is needed for movement of materials, supplies, and equipment. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure 3 different Materials Handling Equipment (MHE) systems (M487 - 4K LB Whse Tractor, M469 - 10K lb Whse Crane, and M482 - 6K lb Forklift). Each of these systems are being procured to replace overaged, high usage unsupportable models and fill priority shortages. These systems are essential to and are utilized in garrison, depot, ammunition plants and miscellaneous supply/material transport operations. These systems are considered essential in peacetime and are critically required in wartime operations.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (MHE)	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION	D. DATE MONTH/YEAR February 1995	TOTAL COST IN THOUSANDS OF DOLLARS							
					FY 94		FY 95		FY 96		FY 97	
					UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
WEAPON SYSTEM COST ELEMENTS					IDENT CODE	QTY	QTY	QTY	QTY	QTY	QTY	
6K SRT FL (M482)	A	(26)	1194							(22)	926	
TRK FL 15K GAS (M490)	A	(23)	1994			(16)	955			(14)	836	
CRANE, TRK WHS (M469)	A	(31)	612			(85)	1872			(103)	1974	
TRK FL 4K SRT (M483)	A	(64)	1274			(100)	1867					
TRAC WHS 4K (M487)	A	(2)	36									
TRK, FL, 2K, ELEC (M491)	A	(86)	706								33	
ENGR SUPPORT												
BELT CONVEYOR (M465)												
					5816	4694	2843	2772				

P-1 SHOPPING LIST

DD Form 2446, JUN 86

ITEM NO 154 PAGE NO 2 OF 4

EXHIBIT P-5 WEAPON SYTEM COST ANALYSIS

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED					DATE February 1995		
ITEMS LESS THAN \$2 MILLION DOLLARS		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE) FY 96 (ML5365)							
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	AAO	ASSETS ON-HAND	ASSETS ON END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1 TRAC, MHS, 4K, DED (M487)	1344	1344	1344	19163	103	1974	FFP	OPTION	DEC 95
2 CRANE, TRK, MHS (M469)	177	156	159	59714	14	836	FFP	OPTION	DEC 95

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED										DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		ITEMS LESS THAN \$ 2 MILLION DOLLARS											
P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE) FY 97												(ML5365)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE			
1	6K SRT FL (M482)	166	64	81	42091	22	926	FFP	CP	DEC 96			
2	CRANE, TRK, WHS (M469)	177	159	177	55242	33	1823	FFP	OPTION	DEC 96			

UNCLASSIFIED

EXHIBIT P-5a

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
COMBAT TRAINING CENTERS SUPPORT
(MA6600)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	22.9	21.1	22.2	5.6	13.9	14.9	33.8	34.8

DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. CTC INCORPORATES THE FOLLOWING PROGRAMS: THE NATIONAL TRAINING CENTER (NTC), THE COMBAT MANEUVER TRAINING CENTER (JRTC), THE JOINT READINESS TRAINING CENTER (JRTC), AND THE BATTLE COMMAND TRAINING PROGRAM (BCTP). INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED UNDER THIS PROGRAM FOR THE THREE MANEUVER TRAINING CENTERS TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE INSTRUCTIVE AFTER ACTION REVIEWS. THIS PROVIDES VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONG-TERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS.

JUSTIFICATION:

THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE CTC'S ARE THE ARMY'S PREMIERE TRAINING AREAS. THEIR EFFECTIVENESS WAS DEMONSTRATED BY OUR SUCCESS IN DESERT STORM. IT IS ESSENTIAL THAT OUR INVESTMENT IN THE CTC'S BE MAINTAINED BY ASSURING THAT THE TRAINING PROVIDED REPRESENTS CURRENT DOCTRINE AND WEAPON CAPABILITY. THE JRTC FY96/FY97 PROGRAM ACQUISITION FOR JRTC INSTRUMENTATION SYSTEM MILITARY OPERATION IN URBAN TERRAIN (MOUT) PROVIDES INITIAL PROCUREMENT OF COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED DATA TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES) COMPATIBLE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE COMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT. THE NTC FY96/97 PROGRAM INCLUDES THE AH-64 INSTRUMENTATION SYSTEM EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE AGES II PRODUCTION SYSTEMS. THE EFFORTS OF THE NTC RANGE DATA MEASUREMENT SYSTEM (RDMS) WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENTS IN TRAINING.

P-1 SHOPPING LIST

DD Form 2454, JUL 88

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UNCLASSIFIED

Page of Pages
EXHIBIT P-40

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

COMBAT TRAINING CENTERS SUPPORT (MA6600)

Weapon System Cost Elements	Ident Code	FY 94		CY		FY 95		BY1		BY2		D. DATE Month/Year February 1996
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	
1 CMTC - Hohenfels, Germany: CMTC Instrumentation System Support	A		767		4303							
2 JRTC - Ft. Chaffee, AR/Ft. Polk, LA: JRTC Instrumentation System (JRTC-IS) JRTC Instrumentation System Support	A		1586 141		8657		4552		2000			
JRTC-MILES Grenade/Claymore					0		3563		297			500 111
JRTC MOUT JRTC MOUT Support					2825							
JRTC Live Fire Targets			3283									
3 NTC - Ft. Irwin, CA: Range Data Measurement Subsystem (RDMS) Range Data Measurement Subsystem DCI's Range Data Measurement Subsystem Support	A		2250 1025		3981 3286		2876 424		2156 44			
CTC-IS/AGES II CTC-IS/AGES II Support			95		2694 16							4470 528
Observer-Controller Communication System			1000									
4 OPFOR Surrogate Vehicle (OSV) OPFOR Surrogate Vehicle Support (OSV)												
5 Battle CMD Training PGM After Action Review Battle CMD Trng Pgm After Action Review Support			1850 105				3576 824		1896 0			
6 Camp Shelby -Armor Silhouette Target Mover and Physical Security System					1100							
NOTE: FY95 (\$9059K) Reprogrammed to CTC (MA6600) From NSTD (NA0100)			22919		30145		22208					5609

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COM(ARI)1092

DATE FEBRUARY 1995

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

JOINT READINESS TRAINING CENTER

(MAG601)

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	15.8	14.8	10.4	0.6				

DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER COMBAT TRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS. THEREBY INCREASING THE UNIT'S COMBAT READINESS. AS AN ADJUNCT TO JRTC OPERATIONS, THE CLAYMORE MINES AND HAND GRENADES TACTICAL ENGAGEMENT SIMULATORS WILL BE PROCURED. CURRENTLY, THERE IS A LIMITED INTERIM INSTRUMENTATION CAPABILITY IN USE AT THE JRTC. EXISTING CAPABILITIES CONSIST OF DATA COLLECTED FROM THE JRTC INTERIM INSTRUMENTATION SYSTEM (JRTC-IS), A VOICE RADIO COMMAND AND CONTROL NET, AND A LIMITED DIGITAL MAPPING SYSTEM AT A FIXED SITE USED FOR GRAPHIC PRESENTATIONS IN AFTER ACTION REVIEWS (AARS). THE OBJECTIVE JRTC-IS WILL MONITOR, GATHER, TIME-TAG, STORE, INTEGRATE, TRANSMIT, AND DISPLAY FORCE-ON-FORCE EXERCISE AND LIVE FIRE DATA. SYSTEM DEVICES WILL INDUCE REAL TIME, SIMULATED CASUALTIES INTO THE SCENARIO PLAY THAT IS AS CLOSE TO COMBAT REALISM AS POSSIBLE DURING ALL PHASES OF A UNIT'S MISSION. CURRENTLY THERE IS NO AUTOMATED CAPABILITY FOR TRAINING EVENT DATA COLLECTION OR COMMAND AND CONTROL OF UNITS PARTICIPATING IN ROTATIONAL MISSIONS CONDUCTED AT THE JRTC MOUT COMPLEX. THE JRTC MOUT COMPLEX WILL CONTAIN BOTH INSTRUMENTATION FOR DATA COLLECTION AND THE NECESSARY INTERACTIVE TARGET SYSTEMS WITH FEEDBACK SYSTEMS TO SUPPORT THE ROTATIONAL SCENARIO PLAY. THE INSTRUMENTATION SYSTEM REQUIRED WILL SUPPORT THE JRTC OPERATIONS GROUP PERSONNEL IN THE ABOVE DATA COLLECTION EFFORT AS WELL AS THE COMMAND AND CONTROL OF THE PLAYERS.

JUSTIFICATION:

THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE JRTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E., FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCES). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE JRTC-IS WILL ENABLE THE OBSERVER/CONTROLLER (OIC) TO DISPLAY SELECTED SEGMENTS OF THE BATTLE, SCORED DATA, AND REPORTS DURING THE AAR. THE POSITION LOCATION OF SELECTED FRIENDLY AND OPPOSING FORCE PARTICIPANTS WILL BE TRACKED VIA THE JRTC-IS. POSITION LOCATION (PL) WILL GIVE AN ACCURATE PICTURE OF WHERE KEY LEADERS, UNITS, AND EQUIPMENT WERE LOCATED IN THE COURSE OF A TACTICAL ENGAGEMENT TO SUPPORT THE DEVELOPMENT OF TRAINING FEEDBACK FOR THE AAR. THE FY98 PROGRAM ACQUISITION FOR JRTC-IS WILL PROVIDE CRUCIAL PROGRAM SUPPORT, INCLUDING INDEPENDENT VERIFICATION AND VALIDATION (IV&V), DEFENSE CONTRACT MANAGEMENT ADMINISTRATIVE OFFICE, (OCMAO), AND INTEGRATION/TESTING SUPPORT. THESE EFFORTS ARE NECESSARY TO COMPLETE PRODUCTION AND FIELDING, WITH APPROPRIATE INTEGRATION AND TESTING, FOR LOT 1 OF THE JRTC-IS. THE JRTC MOUT COMPLEX WITH AN AUTOMATED CAPABILITY TO COLLECT AND RECORD EXERCISE EVENTS WILL ENHANCE BATTLEFIELD REPLAY ANALYSIS IN SUPPORT OF OVERALL TRAINING CONDUCTED AT THE JRTC. THIS EVENT DATA WILL PROVIDE UNIT TRAINING FEEDBACK VIA AAR INFORMATION INPUT AND UNIT TAKE HOME PACKAGES (ITHP) AND LESSONS LEARNED. THE AUTOMATED MOUT FACILITY WILL CAPITALIZE ON STATE-OF-THE-ART TECHNOLOGY TO PROVIDE OIC SAFETY CONTROL OF THE EXERCISE, WITH MONITORING/CONTROL OF MANEUVER DATA COLLECTION. THE FY98/97 PROGRAM ACQUISITION FOR JRTC MOUT PROVIDES INITIAL PROCUREMENT OF COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED LABOR TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MILES COMPATIBLE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE COMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) JOINT READINESS TRAINING CENTER (JRTC)				(MA6601)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995	
WEAPONS SYSTEM COST ELEMENTS		IDENT. CODE	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY 96 UNIT COST	QTY TOTAL COST	BY 97 UNIT COST	QTY TOTAL COST			
2. JRTC - FT CHAFFEE, ARIFT POLK, LA		A											
A. JRTC INSTRUMENTATION SYSTEM (JRTC-IS)													
A. JRTC-IS IN-HOUSE GOVERNMENT ENGINEERING SUPPORT			15686000	1 15686				100					
A. JRTC-IS SUPPORT OGA				141				400					
A. JRTC-IS FIRST ARTICLE TEST SUPPORT								352					
A. JRTC-IS PROVISIONING ITEMS								3700					
A. JRTC-IS SYSTEM SUPPORT													
A. JRTC-IS ECPS													
B. JRTC MILES CLAYMORE/GRENADE							197	10152					
C. JRTC MOUT INSTRUMENTATION SYSTEM													
C. JRTC MOUT INSTRUMENTATION IN-HOUSE GOVERNMENT ENGINEERING SUPPORT				1 2825	2825000		3563000	1 3563	500000	1 500			
D. JRTC LIVE FIRE TARGET								297				111	
				15827				14765				611	
								10412					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
JOINT READINESS TRAINING CENTER (JRTC)

(MA6601)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
2A. JRTC-IS/FY93	CUBIC DEFENSE SAN DIEGO, CA	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUN 93	AUG 96	1	16601000	YES	NO	
2A. JRTC-IS/FY94	CUBIC DEFENSE SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 93	AUG 96	1	15686000	YES	NO	
2B. JRTC MILES CLYMR/GRNDE/FY96	UNKNOWN	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 95	MAY 96	10152	197	NO		JUL 95
2C. JRTC MOUT IS/FY95	SIGNAL COM SYS & SPLY GREENSBORO, NC	NC(8A) FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 95	MAR 96	1	2825000	NO		JUL 95
2C. JRTC MOUT IS/FY96	SIGNAL COM SYS & SPLY GREENSBORO, NC	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 96	AUG 96	1	3563000	NO		NOV 95
2C. JRTC MOUT IS/FY97	UNKNOWN	UNKNOWN	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	JUL 97	1	500000	NO		JAN 96

D. REMARKS

UNCLASSIFIED
DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMPAR1092

PRODUCTION SCHEDULE
P-1 ITEM NOMENCLATURE
JOINT READINESS TRAINING CENTER (JRTC)

REMARKS: *PRODUCTION RATES N/A DUE TO MIX OF ITEMS.

FACILITY NO	ITEM NO	PROGRAM QUANTITY	BAL DUE AS OF 1 OCT	ACCEPT PRIORITY TO 1 OCT			ACCEP PRIORITY TO 1 OCT	MONTHS TO REACH MAX AFTER D DAY	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT
				MINIMUM	1-66	MAXIMUM			MINIMUM	AFTER 1 OCT	AFTER 1 OCT	PRIORITY	AFTER 1 OCT				
														1	1	1	
				100	2200	5000			INITIAL	REORDER							
2A			0 1														
2A			0 1														
2B			0 10152														
2C			0 1														
2C			0 1														
2C			0 1														
TOTAL MONTHLY PRODUCTION			10157														

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT
		MINIMUM	1-66	MINIMUM	AFTER 1 OCT	PRIORITY	AFTER 1 OCT	INITIAL	REORDER	
		1	1	1	1					
2A	CUBIC DEFENSE, SAN DIEGO CA	100	2200	5000						
2B	UNKNOWN	1	1	1						
2C	SIGNAL COM SYS & SPLY GREENSBORO, NC	1	1	1						

UNCLASSIFIED

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT: ARMY 3

OTHER SUPPORT EQUIPMENT

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

JOINT READINESS TRAINING CENTER (JRTC)

(MA6601)

FACILITY NO	U S E R V	PROGRAM QUANTITY					BAL DUE AS OF 1 OCT	ACCEPT PRIOR TO 1 OCT	CAL	FISCAL YEAR 97	CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			REMARKS:						
		FISCAL YEAR 97			FISCAL YEAR 98						FISCAL YEAR 99			TOTAL												
		10CT	11NOV	12DEC	10CT	11NOV					12DEC	10CT	11NOV		12DEC	10CT	11NOV	12DEC								
2B						10152	8300	1852	1862																	
2C						1	0	1		A																
TOTAL MONTHLY PRODUCTION								1853	1862																	

FACILITY NO	MANUFACTURER NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT
		MINIMUM	1-8.6	MAXIMUM	PRIOR 1 OCT	AFTER 1 OCT	INITIAL	REORDER			
2A	CUBIC DEFENSE, SAN DIEGO CA	1	1	1							
2B	UNKNOWN	100	2200	5000							
2C	SIGNAL COM SYS & SPLY GREENSBORO, NC	1	1	1							

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMPIARI1092

DATE FEBRUARY 1995

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY
 OTHER PROCUREMENT: ARMY 3
 OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
 NATIONAL TRAINING CENTER
 (MAG601)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	4.4	10.0	5.5					

DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER TRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. THE CTC-IS/AGES II INSTRUMENTATION SYSTEM WILL PROVIDE A COMMON INTERFACE BETWEEN THE AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEMS. THIS EFFORT WILL ENHANCE CTC AFTER ACTION REVIEWS (AARS) FOR UNITS PARTICIPATING IN MILES BASED TACTICAL FORCE ON FORCE EXERCISES. IN ADDITION, THE INTERFACE WILL ALLOW FOR THE COLLECTION AND NEAR REAL TIME DISPLAY OF BATTLE CONTROLLING DATA FOR THE CTC EVALUATORS TO USE DURING THE TRAINING EXERCISES. THE NTC RANGE DATA MANAGEMENT SYSTEM (RDMS) IS A BI-DIRECTIONAL COMMUNICATION SYSTEM THAT RELAYS EVENT DATA GENERATED BY PLAYERS ON THE BATTLEFIELD BACK TO THE NTC CORE INSTRUMENTATION SYSTEM. THE UPGRADE PROGRAM FOR RDMS WILL INCORPORATE THE LATEST DESIGNS IN DATA COMMUNICATION SYSTEMS AND PROVIDE PROCUREMENT OF REQUIRED NUMBER OF DATA CONTROL INTERFACES FOR FULL OPERATIONAL EFFECTIVENESS. (THE NTC RANGE MONITORING AND CONTROL SYSTEM (RMCS) PROVIDES BACKBONE COMMUNICATIONS AND TERMINAL EQUIPMENT FOR MONITORING, COLLECTING, RECORDING AND EDITING TACTICAL VOICE AND DATA COMMUNICATIONS. IT ALSO PROVIDES VOICE, DATA AND VIDEO COMMUNICATIONS BETWEEN VARIOUS TRAINING PERSONNEL AND TRAINING SITES.) OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS. THE OPFOR SURROGATE VEHICLE (OSV) WILL PROVIDE VISUAL AND TACTICAL SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL PROVIDE KEY RECOGNITION SIGNATURES OF THE BMP-2 WITH BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ONBOARD WEAPON SYSTEMS.

JUSTIFICATION:

THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF. IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE NTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E. FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCE). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE CTC-IS/AGES II INSTRUMENTATION SYSTEM FOR THE FY96/FY97 PROGRAM INCLUDES EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE AGES II PRODUCTION SYSTEMS. THE EFFORTS OF THE NTC RDMS WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) NATIONAL TRAINING CENTER (NTC)				(MAG601)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATIO		D. DATE MONTH/YEAR FEBRUARY 1995	
WEAPONS SYSTEM COST ELEMENTS		IDENT. CODE	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY1 96 UNIT COST	QTY TOTAL COST	BY2 97 UNIT COST	QTY TOTAL COST	QTY TOTAL COST		
3. NTC - FT IRWIN, CA													
A. NTC RANGE DATA MEASUREMENT SUBSYS (RDMS) ENGINEERING CHANGE PROPOSAL (ECP)		A		2250	4424	900	4424	3981	650	2876			
A. NTC RDMS DIGITAL COMMUNICATION INSTRUMENTS													
A. NTC RDMS CONTRACTOR AND OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT				1025				3286		147			
A. NTC RDMS IN-HOUSE GOVERNMENT ENGINEERING SUPPORT										277			
B. CTC-IS/AGES II PLAYER UNITS		B			30267	89	14667	2694	147	2156			
B. CTC-IS/AGES II PRODUCTION TESTING													
B. CTC-IS/AGES II OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT				95				16					
B. CTC-IS/AGES II IN-HOUSE GOVERNMENT ENGINEERING SUPPORT													
C. NTC OBSERVER-CONTROLLER COMMUNICATION SYS		A	1000000	1	1000								
				4370				9977		5500			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	C. P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC)							SPEC REV REQ'D	IF YES, WHEN AVAILABLE
				CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	(MA6601)		
3A. NTC RDMS/FY93		MOTOROLA SCOTTSDALE, AZ	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 93	MAR 95	1	12897000	YES	NO		
3A. NTC RDMS/FY95		MOTOROLA SCOTTSDALE, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAY 95	JUL 95	900	4424	YES	NO		
3A. NTC RDMS/FY96		MOTOROLA SCOTTSDALE, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	DEC 95	650	4424	YES	NO		
3B. CTC-IS/AGES I/FY95		INTERCOASTAL MESA, AZ	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUN 95	SEP 95	89	30267	NO	YES	MAY 95	
3B. CTC-IS AGES I/FY96		INTERCOASTAL MESA, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 96	APR 96	147	14667	NO	YES	MAY 95	
3C. NTC O-CCS/FY94		HUGHES TORRANCE, CA	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 94	JUN 94	1	1000000	YES	NO		

D. REMARKS

CTC-IS/AGES II UNIT COSTS FOR FY96 ARE LOWER THAN FY95 BECAUSE THE FY95 COSTS INCLUDE NON-RECURRING EXPENSES ASSOCIATED WITH STARTING PRODUCTION.

CODE "B" ITEM DESCRIPTION	DATE FEBRUARY 1995	REPORT CONTROL SYMBOL DD-COMP(AR) 1092
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC) CTC-INSTRUMENTATION SYSTEM/AGES II (MA6601)	

CURRENT DEVELOPMENT AND TEST STATUS		
CURRENT	LAST REPORTED	REASON FOR DELAY
MAR 95-APR 95 N/A	FEB 95-APR 95 N/A	CONTRACT AWARD DELAYED
MAY 95 MAY 95	MAY 95-JUN 95 APR 95	

ESTIMATED DATE OF APPROVAL FOR SERVICE USE JUN 95
EQUIPMENT ITEM(S) TO BE REPLACED

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED
ADDITION OF INTERFACE ASSEMBLY TO THE AGES II EQUIPMENT TO ALLOW AGES II TO PROVIDE FORCE-ON-FORCE TRAINING DATA TO EACH COMBAT TRAINING CENTER (CTC) INSTRUMENTATION SYSTEM (IS).

DEVELOPMENT CONTRACT INFORMATION						RD&E FUNDING PROFILE (\$ IN MILLIONS)		
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S	
INTERCOASTAL ELECTRONICS (ICE)	MESA, AZ	INTERFACE ASSEMBLY	1.9	0.2	0.2			
TOTAL RD&E FUNDING			1.9	0.2	0.2			

REMARKS:
1. RDTE CONTRACT AWARD SEP 94. AWARD DELAYED DUE TO CHANGE IN TECHNOLOGY AND ACQUISITION STRATEGY.
2. PROTOTYPE BUILD SEP 94-APR 95.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMPAR/1092

APPROPRIATION / BUDGET ACTIVITY

PRODUCTION SCHEDULE

DATE FEBRUARY 1985

P-1 ITEM NOMENCLATURE

NATIONAL TRAINING CENTER (NTC)

(MAG8001)

FACILITY NO	PROGRAM QUANTITY	FISCAL YEAR 96					FISCAL YEAR 97					FISCAL YEAR 98					REMARKS																			
		ACCEPT PRIOR TO 1 OCT																																		
		FT 93	FT 94	FT 95	FT 96	FT 97	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	APR 97	MAY 97	JUN 97	JUL 97		AUG 97	SEP 97	OCT 97	NOV 97	DEC 97	JAN 98	FEB 98	MAR 98	APR 98	MAY 98	JUN 98	JUL 98	AUG 98	SEP 98					
3A	860						0	860	A	300	350																									
3B	88						4	88	5	10	20	20																								
3B	147						0	147	A																											
TOTAL MONTHLY PRODUCTION							4	882	6	10	310	370	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0	0	0	0	0	0

FACILITY NO	MANUFACTURER NAME & LOCATION	PRODUCTION RATES				MONTHS TO REACH MAX AFTER 0 DAY				ADMIN LEAD TIME				ADM	MAN	TOTAL		
		MINIMUM		MAXIMUM		REACH MAX		AFTER 0 DAY		PRIOR		AFTER						
		1-65	1-65	MAXIMUM	MAXIMUM	REACH MAX	AFTER 0 DAY	10CT	10CT	10CT	10CT	TOTAL	AFTER 10CT					
3A	MOTOROLA, SCOTTSDALE, AZ	1	1	1	1										3A	4	2B	30
3B	INTERCASTAL, MESA, AZ	5	20	40											3A	7	3	10
3C	HUGES, TORRANCE, CA	1	1	1											3A	0	3	3
															3B	8	4	12
															3B	4	3	7
															3C	6	3	9

P-1 SHOPPING LIST

UNCLASSIFIED

EXHIBIT P-21

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

OPPOSING-FORCES SURROGATE VEHICLE (OSV) (MA6601)

APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			4.4	5.0				

DESCRIPTION:

THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMODS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY COMBINED ARMS COMMAND (CAC) THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMODS AND INTERFACES, BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF THE EARLY USER ASSESSMENT AT NTC.

JUSTIFICATION:

THE OPPOSING FORCE SURROGATE VEHICLE WILL PROVIDE NEEDED REALISTIC SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE IN THE NTC TRAINING ENVIRONMENT, RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995			
OPPOSING FORCES SURROGATE VEHICLE (OSV)		(MA6601)									
WEAPONS SYSTEM COST ELEMENTS		IDENT. CODE	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY 1 96 UNIT COST	QTY TOTAL COST	BY 2 97 UNIT COST	QTY TOTAL COST	
4. OSV		B									
A. VEHICLE							298000	12	3576	15	4470
B. PUBLICATIONS									500	36	
C. PRODUCTION TESTING									149	222	
D. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT									130	225	
E. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT									45	45	
										4400	4998

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
 OTHER PROCUREMENT: ARMY 3
 OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
 OPPOSING-FORCES SURROGATE VEHICLE (OSV)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	(MAG601)
										IF YES, WHEN AVAILABLE
4. OSV										
A. VEHICLE/FY96	RED RIVER ARMY DEPOT TEXARKANA, TX	CIFFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	JUN 97	12	298000	NO		JUN 95
A. VEHICLE/FY97	RED RIVER ARMY DEPOT TEXARKANA, TX	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	DEC 97	15	298000	NO		JUN 95

D. REMARKS

CODE "B" ITEM DESCRIPTION DATE FEBRUARY 1995 REPORT CONTROL SYMBOL
 DD-COMP(AR) 1092

APPROPRIATION / BUDGET ACTIVITY P-1 ITEM NOMENCLATURE
 OTHER PROCUREMENT: ARMY 3 NATIONAL TRAINING CENTER (NTC)
 OTHER SUPPORT EQUIPMENT OPFOR SURROGATE VEHICLE (OSV)
 (MA6601)

CURRENT DEVELOPMENT AND TEST STATUS

		SCHEDULE DATE	
	CURRENT	LAST REPORTED	REASON FOR DELAY
DEV TEST & EVAL (DT&E)	FEB 95	AUG 91	
INITIAL OPER TEST & EVAL (IOT&E)	N/A	DEC 93	
OPER TEST & EVAL (OT&E)	N/A	N/A	
AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	JUNE 95	SEP 94	

ESTIMATED DATE OF APPROVAL FOR SERVICE USE MILESTONE III SEP 95

EQUIPMENT ITEM(S) TO BE REPLACED

M551 OPFOR VEHICLE

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED

INCREASED MTRF AND USEFUL LIFE. DECREASED OVERHAUL COSTS. BETTER REPLICATION OF THREAT.

DEVELOPMENT CONTRACT INFORMATION RDT&E FUNDING PROFILE (\$ IN MILLIONS)

CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
RED RIVER ARMY DEPOT (RRAD)	TEXARKANA, TX	M113 OSV	1.4	0.5			
TOTAL RDT&E FUNDING			1.4	0.5			

REMARKS:

- DEV TEST & EVAL (DT&E): AUG 91 DATE LAST REPORTED WAS FOR THE TECHNICAL FEASIBILITY TEST. NEW DATE IS FOR THE DT&E.
- INITIAL OPER TEST & EVAL (IOT&E): DEC 93 DATE LAST REPORTED WAS FOR THE INITIAL USER EVALUATION. THE TEST INTEGRATION WORKING GROUP HAS DETERMINED THAT THE IOT&E IS NOT REQUIRED. SHOULD HAVE BEEN "N/A" LAST REPORTED.
- AVAIL DATE OF TECH DATA PKG (TDP): SEP 94 LAST REPORTED WAS FOR THE INITIAL TDP. JUNE 95 IS FOR THE VALIDATED TDP.

REPORTS CONTROL SYMBOL DD-COMPAR1092		UNCLASSIFIED			DATE FEBRUARY 1995																
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		PRODUCTION SCHEDULE			(MA 6601)																
P-1 ITEM NOMENCLATURE OPPOSING FORCES SURROGATE VEHICLE (OSV)		FISCAL YEAR 98																			
PROGRAM QUANTITY		FISCAL YEAR 97			FISCAL YEAR 98				FISCAL YEAR 99				FISCAL YEAR 00		FISCAL YEAR 01						
		CALENDAR YEAR 97			CALENDAR YEAR 98				CALENDAR YEAR 99				CALENDAR YEAR 00		CALENDAR YEAR 01						
U S S R		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	OCT NOV DEC			JAN FEB MAR			APR MAY JUN			JUL AUG SEP			OCT NOV	
								BAL DUE AS OF			OCT NOV DEC			JAN FEB MAR			APR MAY JUN			JUL AUG SEP	
4A.		12	12		15	0	0	A													
4A.			15					0			A										
TOTAL MONTHLY PRODUCTION		27		0			0			0			0			0					
FACTORY NO		MANUFACTURER'S NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX AFTER O DAY			ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT						
		4A. RED RIVER ARMY DEPOT (RRAD) TEXARKANA, TX		MINIMUM	1-9-8	MAXIMUM	PRIOR 1 OCT			AFTER 1 OCT			INITIAL		REORDER						
		1		2		3			1			1			21						
		1		2		3			1			1			15						
REMARKS: ALL TESTING (INCLUDING POT, SAFETY CONFIRMATION TESTING, ETC.) WILL BE COMPLETED JUNE 96.																					
UNCLASSIFIED																					
P-1 SHOPPING LIST																					
DD Form 2445, JUL 87																					
ITEM NO 155 PAGE NO 18 OF 22																					
Page OF Pages EXHIBIT P-21																					

APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	(MA6601)
QUANTITY	FY 94 FY 95 FY 96 FY 97 FY 98 FY 99 FY 0	
COST(IN MILLIONS)	1.9	

DESCRIPTION:
 BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND PRESENTED DURING THE AAR.

JUSTIFICATION:
 THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING DATA SOURCE PROVIDER FOR INSIGHT INTO AND IMPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE AARS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMATICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

Weapon System Cost Elements	Ident. Code	BCTP (MA 6600)		A. Appropriation/Budget OTHER PROCUREMENT: ARMY 3		B. WEAPON BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYS		C. MANUFACTURER NAME LOGICON, RDA CALIFORNIA		D. DATE FEBRAURY 1985
		FY 94 Unit Cost	Qty Total Cost	CY 95 Unit Cost	Qty Total Cost	BY1 96 Unit Cost	Qty Total Cost	BY2 97 Unit Cost	Qty Total Cost	
5 BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	A									
A BCTP CONFIGURATION HARDWARE		925000	2 / 1850							
B MACOM CONFIGURATION HARDWARE						700000	1 / 700			
C CORPS/DIV CONFIGURATION HARDWARE						598000	2 / 1196			
D ENGINEERING SUPPORT			105							
										1896
							0			
			1955							

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3		OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) (MA6600)					
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
5A BCTP AAR FY96	LOGICON, RDA	SS/FP	NAVAL AIR WARFARE CENTER, Orlando, FL	Jul-94	Feb-95	2	925000	YES		
5B MACOM AAR/ FY96	LOGICON, RDA	SS/CP	NAVAL AIR WARFARE CENTER, Orlando, FL	Nov-95	Jan-96	1	700000	NO		Jul-95
5C CORPS/DIV AAR/FY96	LOGICON, RDA	SS/CP	NAVAL AIR WARFARE CENTER, Orlando, FL	Nov-95	Jan-96	2	598000	NO		Jul-95

D. REMARKS

THE SPECIFICATIONS ARE AVAILABLE FOR CURRENT SOFTWARE. SPECIFICATIONS MAY BE REVISED DUE TO SOFTWARE CHANGES PRIOR TO FY96 PROCUREMENT.

REPORTS CONTROL SYMBOL: DD-COMP (AR) 1092

UNCLASSIFIED

PRODUCTION SCHEDULE

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY: OTHER PROCUREMENT: ARMY 3

P-1 ITEM Nomenclature: BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)

(MM6601)

FACILITY NO	SERIAL / UM	PROGRAM QUANTITY	ACCEPT PRIOR TO 1 OCT 99	BAL DUE AS OF 1 OCT	FISCAL YEAR 94					FISCAL YEAR 95					FISCAL YEAR 96					L	A	T	R								
					CALENDAR YEAR 94					CALENDAR YEAR 95					CALENDAR YEAR 96																
					OCT	NOV	DEC	JAN	FEB	OCT	NOV	DEC	JAN	FEB	OCT	NOV	DEC	JAN	FEB					JUN	JUL	AUG	SEP				
					MAR	APR	MAY	JUN	JUL	MAR	APR	MAY	JUN	JUL	MAR	APR	MAY	JUN	JUL									AUG	SEP		
5A	EA	2	0	2						A																					
5B	EA	1	0	1							2										1										
5C	EA	2	0	2																	A										
TOTAL MONTHLY PRODUCTION					0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0											

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME			REMARKS
		MINIMUM	MAXIMUM		ADMIN LEAD TIME			
					PRIOR 1 OCT	AFTER 1 OCT	TOTAL MANUFACTURING TIME AFTER 1 OCT	
5	UNKNOWN						INITIAL	ALL COMMERCIAL OFF-THE-SHELF ITEMS (COTS)
							REORDER	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)				Date		FEBRUARY 1995			
Appropriation/P-1 Line Item		Weapons System (if applicable)		Equipment Nomenclature		PE			
OPA 3 CTC INSTRUMENTATION SUPPORT				MA6600 JRTC-IS		644715			
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	32.5	8.7	4.6						45.8
RDT&E	8.4		1.0						9.4
O\$\$	5.5	8.1	4.3	4.6	4.6	4.9	4.9	4.0	40.9

TRAINING SYSTEM DESCRIPTION:

THE JOINT READINESS TRAINING CENTER INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SUPPORT THE UNIQUE OPERATIONAL REQUIREMENTS OF THE JRTC. WHILE THE OVERALL ARCHITECTURE WILL BE SIMILAR TO THE OTHER CTCs, THE LIGHT INFANTRY AND SPECIAL OPERATIONS FORCES GENERATE A STRIDENT SET OF TECHNICAL PERFORMANCE REQUIREMENTS.

P-1 SHOP LIST ITEM NO.		155 A		PAGE NO.		EXHIBIT-43, PAGE 1 of 6	
						P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item	Weapon System (if applicable)	IOC Date	Equipment Nomenclature	Date										
				FEBRUARY 1995										
				MA8600	JRTC-IS	PE								
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2			
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
OPA 3 CTC INST SPT												644715		
JRTC-IS	FT POLK, LA	4QFY96	4QFY96	N/A	1	32528	8657	4552						

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P-1 SHOP LIST ITEM NO.
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Simulation and Training Device Justification (\$000)

Date

FEBRUARY 1995

Weapon System (if applicable)

OPA 3 CTC INST SPT

MA6600 JRTC-IS

Description/Justification

Financial Plan

	Qty	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS													
Device (Hardware)	1		32291		2700								
ECOs													
Nonrecurring													
GFE													
Other (Specify) COST GROWTH					3007		3700						
Total Hardware Costs			32291		5707		3700						
SUPPORT COSTS													
Special SE													
Integrated Logistics Support					2300		352						
Other (Specify) TESTING			237		650		500						
Total Support Costs			237		2950		852						
Software/Courseware													
TOTAL COSTS			32528		8657		4552						

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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000) Date **FEBRUARY 1996**

Appropriation (P-1 Line Item)		Weapons System (if applicable)				Equipment Nomenclature				PE
OPA 3 CTC INSTRUMENTATION SUPPORT						MAG600 JRTC MOUT-IS				644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL	
Quantity										
Proc		2.8	3.9	0.6	4.0				11.3	
RDT&E		1.4	1.0						2.4	
O&S		3.0	2.0	2.0	2.0	2.0	2.0	2.0	15	

TRAINING SYSTEM DESCRIPTION:

THE JOINT READINESS TRAINING CENTER (JRTC) MILITARY OPERATIONS IN URBAN TERRAIN (MOUT) INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SATISFY THE UNIQUE OPERATIONAL REQUIREMENTS FOR A MOUT ASSESSMENT AT THE JRTC.

P-1 SHOP LIST ITEM NO.	155 A	PAGE NO.	4a
		EXHIBIT-43, PAGE 1 of 6	
		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item	Weapon System (if applicable)				IOC Date		Equipment Nomenclature				PE
	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years	2QFY96	Current Year	Budget Year 1	Budget Year 2			
Training Device by Type	Site			Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
OPA 3 CTC INST SPT											
JRTC-IS	FT POLK, LA	2QFY96	N/A			1	2825	1	3860	1	611

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Training Device by Type Weapon System (if applicable)

OPA 3 CTC INST SPT

Description/Justification

MA6600 JRTC MOUT-IS

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)			1	2825	1	3563	1	500				
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs				2825		3563		500				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify) In-house												
Gov't Engineering Support												
Total Support Costs						297		111				
Software/Courseware						297		111				
TOTAL COSTS				2825		3860		611				

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EXHIBIT-43, PAGE 3 of 6

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation: P-1 Line Item		Weapons System (if applicable)					Equipment Nomenclature				PE
OPA 3 CTC INST SPT							MA6600 NTC RDMS UPGRADE				644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	16.4	7.3	3.3						27.0		
RDT&E	1.6								1.6		
0\$\$	13.5	12.3	10.6	12.5	10.0	10.0	10.0	10.0	88.9		

TRAINING SYSTEM DESCRIPTION:

NATIONAL TRAINING CENTER - RANGE DATA MEASUREMENT SYSTEM UPGRADE (NTC-RDMS)

THIS PROJECT WILL MODERNIZE THE NTC POSITION LOCATION AND EVENT RECORDING SYSTEM. THIS UPGRADE WILL EXPLOIT THE INHERENT CAPABILITIES OF NEW SYSTEMS BEING FIELD TO THE NTC. FURTHER, THIS EFFORT WILL INCREASE THE NUMBER OF INSTRUMENTED PLAYERS.

* NTC - INSTRUMENTATION SYSTEM SUPPORT (MA6600)

	P-1 SHOP LIST ITEM NO.	155 A	PAGE NO.	7a	EXHIBIT-43, PAGE 1 of 6
					P-43 Simulator & Training Device Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Appropriation/P-1 Line Item
 OPA 3 CTC INST SPT

Date: FEBRUARY 1996
 Equipment Nomenclature: MAB600 NTC RDMS UPGRADE
 IOC Date: 30 FY95
 PE: 644715

Weapon System (if applicable)

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
NTC RDMS UPGRADE	FT IRWIN, CA	20 FY95	30 FY95	N/A	1	16359		7267		3300		
		P-1 SHOP LIST ITEM NO.		155	PAGE NO.		8a					

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Weapon System (if applicable)

Training Device by Type

OPA 3 CTC INST SPT

Description/Justification

MA8600 NTC RDMS UPGRADE

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	1	15147	900	3981	650	2876						
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs												
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify) ENG SPT		1212		3286		424						
Total Support Costs												
Software/Courseware												
TOTAL COSTS		16359		7267		3300						

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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)				Date	FEBRUARY 1995				
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature	PE			
OPA 3 CTC INSTRUMENTATION SUPPORT					WA6600 CTC-IS/AGES II	644715			
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	0.4	2.7	2.2						5.3
RDT&E	1.6	0.15							1.75
O&S									

TRAINING SYSTEM DESCRIPTION:

THE CTC-IS/AGES II SYSTEM PROVIDES A COMMON INTERFACE BETWEEN AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEM (CTC IS). THIS INTERFACE WILL MONITOR AND CONTROL AVIATION MANEUVER TRAINING, PRODUCE AFTER ACTION REVIEWS (AARs), STANDARDIZE EVALUATION OF AVIATION TRAINING PERFORMANCE AND PROVIDE DETAILED TRAINING FEEDBACK IN NEAR REAL TIME. ARMY AVIATION UNITS WILL USE THE PRODUCTS GENERATED AND SUPPORTED BY THIS SYSTEM TO INTERNALLY IDENTIFY TRAINING AND PROFICIENCY STRENGTHS AND WEAKNESSES AND TO TAKE CORRECTIVE ACTION TO IMPROVE THEIR OVERALL COMBAT READINESS.

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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995														
Appropriation/P-1 Line Item			Equipment Nomenclature											
OPA 3 CTC INST SPT Training Device by Type	Weapon System (if applicable)		IOC Date			MA800 CTC-ISIAGES II			PE			Budget Year 2		
	Site		Delivery Date		Ready for Training Date		Average Student Throughput		Prior Years		Current Year		Budget Year 1	
	Site		Delivery Date	Ready for Training Date	Average Student Throughput	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
CTC-ISIAGES II	FT IRWIN, CA	4QFY95	4QFY95	N/A	395	89	2710	147	2200					
		P-1 SHOP LIST ITEM NO.			PAGE NO.		EXHIBIT-43, PAGE 2 of 6							
		155 A			11a									

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description/Justification													
MA8600 CTC-IS/AGES II													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)			89	2694	147	2156							
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs				2694		2156							
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify) TESTING				16									
ENGINEERING SPT		395											
Total Support Costs		395		16									
Software/Courseware													
TOTAL COSTS		395		2710		2200							
										P-1 SHOP LIST		PAGE NO.	
										ITEM NO.		155 A	
												EXHIBIT-43, PAGE 3 of 6	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)				Date	FEBRUARY 1995				
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature	PE			
OPA 3 CTC INST SPT					MAG800 NTC OSV	644715			
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc			4.4	5.0	10.0	15.0	20.0	20.0	74.4
RDT&E	1.3	0.5							1.8
O&S		0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.4

TRAINING SYSTEM DESCRIPTION:

THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMODS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY CAC THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMODS AND INTERFACES, BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF THE EARLY USER ASSESSMENT AT NTC.

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		EXHIBIT-43, PAGE 1 of 6	
		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date **FEBRUARY 1995**

Appropriation/P-1 Line Item	Equipment Nomenclature													
	Weapon System (if applicable)					IOC Date		Current Year		Budget Year 1		Budget Year 2		
	Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
OPA 3 CTC INST SPT						3Q FY97								PE
NTC OSV	FT IRWIN, CA	30 FY97	30 FY97					12	4400	15	4998			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Weapon System (if applicable)

Training Device by Type

OPA 3 CTC INST SPT

Description/Justification

MA6600 NTC OSV

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)					12	3576	15	4470				
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs												
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify) PUBS						500	36	270				
ENGINEERING SPT						175	222	528				
TESTING						149	4998					
Total Support Costs						824						
Software/Courseware						4400						
TOTAL COSTS												

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SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1985
Appropriation/P-1 Line Item	Weapon System (if applicable)				Equipment Nomenclature				PE		
OPA 3	CTC INSTRUMENTATION SUPPORT				BCTP AAR				844715		
File Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total		
Quantity											
Proc	1.9	0	1.9	0	0	0	0	0	0	03.8	
RDT&E	1	0	0	0	0	0	0	0	0	1	
O&S											

TRAINING SYSTEM DESCRIPTION:

BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND PRESENTED DURING THE AAR.

THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING AND DATA SOURCE PROVIDER FOR INSIGHT INTO AND IMPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS AND TO SUPPORT TRAINING. THE AARS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMATICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)

Appropriation P-1 Line Item		OPA 3		Weapon System (if applicable)		IOC Date		Equipment Nomenclature				Date		PE					
STC INSTRUMENTATION SUPPORT		Training Device By Type		Delivery Date		Ready for Training Date		Average Student Throughput		Prior Years		Current Year		Budget Year 1		Budget Year 2			
										Qty		Cost		Qty		Cost			
BCTP AAR	HARDWARE SUITE	NSC		Feb-95						2	1850								
MACOM AAR	HARDWARE SUITE	TBF		Jan-96										1	700				
CORPS/DIV AAR	HARDWARE SUITE	TBD		Jan-96										2	1196				
										PAGE NO.		17a							
										P-1 SHOPPING LIST ITEM NO.		155 A							

FEBRUARY 1995

DATE

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)
OPA 3
Weapon System (if applicable)

Training Device by Type
 CTC INSTRUMENTATION SUPPORT

Description/Justification
 BCTP AAR

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	2	1850			3	1898						
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs												
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify)												
TESTING SUPPORT												
Total Support Costs		105										
Software/Courseware												
TOTAL COSTS												

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P-1 SHOPP LIST ITEM NO.

APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE TRAINING DEVICES, NONSYSTEM (NAO100)							
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
COST (IN MILLIONS)	78.8	85.3	71.6	102.7	71.0	90.9	97.4	112.2

DESCRIPTION:

THE ARMY CONTINUES TO BUILD ON A MAJOR INITIATIVE, WITH THE FY96/FY97 NSTD PROGRAM, TO INTRODUCE REALISTIC AND EFFECTIVE SIMULATIVE TRAINING DEVICES INTO THE INDIVIDUAL AND UNIT TRAINING SETTING. THESE DEVICES BRING INTO PLAY MANY ASPE OF T COMBAT ENVIRONMENT (SMOKE, NOISE, CONFUSION, STRESS, ETC.) WHICH PROVIDE OUR SOLDIER THE VALUABLE EXPERIENCE OF BATTLEFIELD CONDITIONS IN A TRAINING ENVIRONMENT. THIS EFFORT INCLUDES THE ACQUISITION OF TRAINING SYSTEMS FOR MANEUVER SITUATION TARGET ENGAGEMENT SIMULATORS AND GAMI SIMULATIONS. DEVICES AND SIMULATIONS ARE BEING FIELED TO MIN RESOURCE CONSUMPTION WHICH WILL EFFECT A DIRECT COST REDUCTION THROUGH CONSERVATION OF ENERGY AND AMMUNITION. THE REDUCTION OF AVAILABLE REAL ESTATE (RANGES AND MANEUVER AREAS) FOR TRAINING BEING EXPERIENCED BY BOTH ACTIVE A AND RESERVE COMPONENT UNITS NECESSITATES THE INCREASED USE DEVICES AND SIMULATIONS. THE DEVICES AND SIMULATIONS ACQUIRED UNDER THE NSTD PROGRAM ARE ESSENTIAL FOR THE ARMY TO ACHIEVE THE GOAL OF INCREASING TRAINING EFFECTIVENESS AND SUSTAINING COMBAT READINESS IN A CONSTRAINED TRAINING ENVIRONMENT.

JUSTIFICATION:

THE FY96/97 NSTD PROGRAM WILL PROVIDE FOR THE CONTINUATION OF THE REMOTE TARGET SYSTEM (RETS), GUARD UNIT ARMOY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING (GUARDFIST I), THE SIMULATED AREA WEAPONS EFFECTS SIMULATOR - RADIO FREQUENCY (SAME-RF), THE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) AND THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY STYSTEM (TWGSS/PGS). IN FY 96 THE PROGRAM WILL ALSO INITIATE THE ACQUISITION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS). COST AND TRAINING EFFECTIVENESS ANALYSES ARE PERFORMED ON PROPOSED PROJECTS RESULTING IN ONLY THOSE PROGRAMS DEMONSTRATING HIGH POTENTIAL PAYOFFS BEING PURSUED. SIMULATORS PROCURED UNDER THIS LINE ARE EITHER THE RESULT OF A DEVELOPMENT EFFORT OR THE PURCHASE OF A NON-DEVELOPMENTAL ITEM.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE Month/Year	
Training Devices, Non-System (NA0100)		OPA 3						February 1996	
Weapon System Cost Elements	Ident Code	FY 94 Unit Cost	Qty Total Cost	CY 95 Unit Cost	Qty Total Cost	BY1 96 Unit Cost	Qty Total Cost	BY2 97 Unit Cost	Qty Total Cost
NA0101 NSTD Maneuver Close Combat			21023		48909		50915		66691
Multiple Integrated Laser Engagement System 2000	A		0		12399		16517		38521
Air Ground Engagement System II	A		5786		17953		0		0
Guard Unit Armory Device for Full-Crew Interactive Simulation-Armor (Guardfist I)	A		1061		6666		10133		6314
Tank Weapons Gunnery Sim Systems/Precision Gun Systems	A		1412		11891		24265		21856
Thru-Sight Video-Worldwide	A		3295		0		0		0
Precision Gunnery Training System	A		2397		0		0		0
Close Combat Tactical Trainer	B		7072		0		0		0
NA0103 NSTD Command and Control			9361		2983		4323		6026
Combat Service Support Training Simulation System	B		0		0		4323		6026
Brigade/Battalion Battle Simulation	A		1951		1638		0		0
JANUS	A		3997		488		0		0
Corps Battle Simulation	A		2958		427		0		0
TACSIM/UAV/JSTARS	A		455		430		0		0

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-6)**

Training Devices, Non-System (NA0100)

Weapon System Cost Elements	Ident Code	A. Appropriation/Budget Activity Title/No. OPA 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE Month/Year February 1995	
		FY 94 Unit Cost	Qty Total Cost	CY Unit Cost	Qty Total Cost	BY1 Unit Cost	Qty Total Cost	BY2 Unit Cost	Qty Total Cost
NA0105 NSTD Range Targetry			16801		10621		13067		13056
Remoted Target System	A		8591		9621		13067		13056
Engagement Skills Trainer	A		0		1000		0		0
Area Weapons Scoring System	A		1935		0		0		0
Precision Range Integrated Maneuver Exercise	A		915		0		0		0
Weaponeer	A		360						
Improved Moving Target Simulator	A		5000						
NA0106 NSTD Fire Support/Air Defense			31548		13751		3256		16887
Simulated Area Weapons Effects-Radio Frequency	A		29541		9445		3256		16887
Guard Unit Armory Device for Full-Crew Interactive Simulation-Artillery (Guardfist II)	A		2007		4306		0		0
NA0107 DATS									
Data Automated Tower Simulator (DATS)	A		41						
NOTE: FY95 (\$9059) Reprogrammed from NSTD (NA0100) to CTC (MA6600)			78774		76264		71561		102660

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
NSTD MANEUVER CLOSE COMBAT

(NAO101)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
QUANTITY								
COST (IN MILLIONS)	21.0	48.9	50.9	66.7	55.7	56.4	59.6	59.6

DESCRIPTION:

THE TRAINING DEVICES/SIMULATIONS CONSOLIDATED UNDER THE MANEUVER CLOSE COMBAT SUBCATEGORY IN THE FY96/97 NSTD PROGRAM WILL BE UTILIZED IN MANEUVER AND ENGAGEMENT SIMULATION TRAINING. SPECIFIC DEVICES BEING PROCURED INCLUDE:

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) IS AN UPGRADE OF THE BASIC MILES SYSTEM AND PROVIDES/ENHANCES REAL TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINERS. GUARD UNIT ARMOY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING I (GUARDFIST I) WILL CONSIST OF INTERACTIVE SCENARIOS. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND TRAINING EXERCISES. THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (TWGSS/PGS) IS USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. THE SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOM WEAPONS SYSTEM, THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT.

JUSTIFICATION:

COLLECTIVELY, THE MANEUVER CLOSE COMBAT DEVICES/SIMULATIONS WILL SIGNIFICANTLY ENHANCE THE UNIT'S AND THE SOLDIER'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY THROUGH COMBINED ARMS OPERATIONS, PROVIDING INCREASED REALISTIC COMBAT TRAINING, UNLIMITED PRECISION GUNNERY PRACTICE WITHOUT EXPENDING COSTLY AMMUNITION AND INVALUABLE CREW AND INDIVIDUAL TRAINING. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS WHILE MINIMIZING OVERALL TRAINING COSTS. THE GUARDFIST I DEVICE WILL TRAIN AND EVALUATE INDIVIDUAL AND COLLECTIVE COMBAT SKILLS FROM BASIC GUNNERY TABLES I-IV AND TACTICAL TABLES A-C THROUGH INTERMEDIATE GUNNERY TABLES V-VIII. THE TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK. OTHER THAN DURING LIVE FIRE ON RANGES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. MILES 2000 REPLACES THE BASIC MILES SYSTEM AND WILL PROVIDE NEEDED ENHANCED TRAINING CAPABILITIES.

UNCLASSIFIED
 REPORTS CONTROL SYMBOL DD-COMPIAR1092
 BUDGET ITEM JUSTIFICATION SHEET
 DATE FEBRUARY 1995 (NA0101)

P-1 ITEM NOMENCLATURE
 MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)		12.4	16.5	38.5	33.8	36.5	45.6	57.9

DESCRIPTION:

THE MILES 2000 SYSTEM PROVIDES REAL-TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINING IN A FORCE-ON-FORCE TRAINING SCENARIO. MILES 2000 IS A REPLACEMENT OF ALL DIRECT-FIRE "BASIC" MILES DEVICES CURRENTLY FIELDIED.

MILES 2000 IS AN ENHANCEMENT OF BASIC MILES WHICH PROVIDES THE FOLLOWING CAPABILITIES:

- 8 ASPECT ANGLES TO ACCOUNT FOR SIDE, FLANK, CORNER AND REAR SHOTS. EACH ASPECT ANGLE WILL HAVE ITS OWN ASSOCIATED PROBABILITY OF KILL (PK).
- INCREASED PROGRAMMABILITY OF WEAPON CHARACTERISTICS, PROBABILITY OF KILL, RANGES, AND BASIC WEAPON AMMUNITION LOADS.
- EVENT RECORDING AND DISPLAY.
- DISCRETE PLAYER ID FOR ALL PARTICIPANTS. THIS WILL ENHANCE TRAINING IN TERMS OF AFTER-ACTION REVIEW, AND WILL AID IN IDENTIFYING AND REPLICATION OF ALL WEAPON CAPABILITIES AND VULNERABILITIES THROUGH LASER SIMULATION OF WEAPON FIRING EFFECTS, AND THROUGH PROGRAMMED SIMULATION OF VULNERABILITIES.
- ENHANCED AUDIO-VISUAL CUEING EFFECTS TO REPLICATE BATTLEFIELD WEAPON EFFECTS.

JUSTIFICATION:

BASIC MILES IS CURRENTLY OBSOLETE TECHNICALLY AND IS UNECONOMICAL TO REPAIR AND SUSTAIN. THE LIMITED NUMBER OF MILES 2000 DEVICES BOUGHT IN FY95 WILL BE COMPLETELY TESTED AND PRODUCTION QUALIFIED PRIOR TO AWARD OF FY96 PRODUCTION OPTION. FULL RATE PRODUCTION DEVICES WILL BE FIELDIED AS BATTALION SETS BEGINNING IN AUGUST 96 AND WILL CONTINUE UNTIL MILES 2000 COMPLETELY REPLACES EXISTING MILES IN THE FIELD.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) (NA0101)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1985	
	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY1 96 UNIT COST	QTY TOTAL COST	BY2 97 UNIT COST	QTY TOTAL COST
1. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)								
A. M16A2 W/VEST		200	3923	785	2641	1750	2511	4125
B. SNIPER RIFLE		10	4296	43	3587	50	3311	125
C. SQUAD AUTOMATIC WEAPON		45	4240	191	3063	144	2846	360
D. LAW/JAT-4		30	9013	270	5084	178	4387	445
E. TOW		10	16360	164	16360	20	16360	25
F. M60 MG		25	4298	107	3179	40	2862	50
G. M2 XMTR		25	4005	100	3245	55	2951	130
H. M113 APC		10	7708	77	6576	75	6293	200
I. M2/3 BRADLEY		25	17923	448	14298	129	13620	425
J. M1 SERIES		27	14203	383	10919	115	10328	375
K. MITS		30	2807	84	2807	750	2807	1875
L. CONTROLLER GUN		20	951	19	951	80	951	200
M. SMALL ARMS ALIGNMENT FIXTURE (SAAF)		4	3670	15	3670	33	3670	85
N. VEHICLE SYSTEM TEST SETS (VSTS)		4	1075	4	1075	32	1075	70
O. INITIAL PRODUCTION FACILITIES				3425				
P. NON-RECURRING ENGINEERING				3024				
Q. PRODUCTION TESTING				486				
R. DATA (PRODUCTION/UPDATING OF MANUALS, ETC.)				544				
S. CONTRACTOR MANAGEMENT (LEVEL OF EFFORT)				1102				
T. ENGINEERING CHANGES				81				
U. INTERIM CONTRACTOR LOGISTICS SUPPORT				282				
V. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT				479				
W. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT				286				
		12399				16517		38521

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	(NAO101)
										IF YES, WHEN AVAILABLE
1. MILES 2000										
A. M16A2 W/VEST/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	200	3923	YES	NO	
A. M16A2 W/VEST/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	1750	2641	YES	NO	
A. M16A2 W/VEST/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	4125	2511	YES	NO	
B. SNIPER RIFLE/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	4296	YES	NO	
B. SNIPER RIFLE/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	50	3587	YES	NO	
B. SNIPER RIFLE/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	125	3311	YES	NO	
C. SQUAD AUTO WEAPON/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	45	4240	YES	NO	
C. SQUAD AUTO WEAPON/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	144	3063	YES	NO	
C. SQUAD AUTO WEAPON/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	360	2846	YES	NO	

D. REMARKS

CONTRACT AWARD DELAYED DUE TO EXTENDED SOURCE SELECTION PROCEDURES REQUIRED TO RESPOND TO DA DIRECTION ON MIL SPECS/STDS.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

(NA0101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. MILES 2000										
D. LAW/AT-4/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	30	9013	YES	NO	
D. LAW/AT-4/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	178	5084	YES	NO	
D. LAW/AT-4/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	445	4387	YES	NO	
E. TOW/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	16360	YES	NO	
E. TOW/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	20	16360	YES	NO	
E. TOW/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	25	16360	YES	NO	
F. M60 MG/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	4298	YES	NO	
F. M60 MG/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	40	3179	YES	NO	
F. M60 MG/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	50	2862	YES	NO	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
 OTHER PROCUREMENT: ARMY 3
 OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
 MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	(NAO101)
1. MILES 2000											
G. M2 XMTR/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	4005	YES	NO		
G. M2 XMTR/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	55	3245	YES	NO		
G. M2 XMTR/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	130	2951	YES	NO		
H. M113 APC/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	7708	YES	NO		
H. M113 APC/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	75	6576	YES	NO		
H. M113 APC/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	200	6293	YES	NO		
I. M2/3 BRADLEY/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	17923	YES	NO		
I. M2/3 BRADLEY/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	129	14298	YES	NO		
I. M2/3 BRADLEY/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	425	13620	YES	NO		

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)										(NAO101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1. MILES 2000												
J. M1 SERIES/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	27	14203	YES	NO			
J. M1 SERIES/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	115	10919	YES	NO			
J. M1 SERIES/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	375	10328	YES	NO			
K. MITS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	30	2807	YES	NO			
K. MITS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	750	2807	YES	NO			
K. MITS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	1875	2807	YES	NO			
L. CONTROLLER GUN/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	20	951	YES	NO			
L. CONTROLLER GUN/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	80	951	YES	NO			
L. CONTROLLER GUN/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	200	951	YES	NO			

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)										(NAO101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1. MILES 2000												
M. SAAF/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	4	3670	YES	NO			
M. SAAF/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	33	3670	YES	NO			
M. SAAF/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	85	3670	YES	NO			
N. VSTS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	4	1075	YES	NO			
N. VSTS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	32	1075	YES	NO			
N. VSTS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	70	1075	YES	NO			

D. REMARKS

UNCLASSIFIED

REPORTS CONTROL SYMBOL DD-COMPARI1092

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT

UNCLASSIFIED

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

(MAO101)

DATE FEBRUARY 1995

FACILITY NO	U S I M R V	PROGRAM QUANTITY	FY 94	FY 96	FY 97	FY 98	FY 99	ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99																																															
										OCT			NOV			DEC			JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC			JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP		
										10CT	NOV	DEC	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10															
1A	EA			1750		4125		560	1200	300	300	300		300	345	345	395	420	420	420	245																																																												
1B	EA			50		125		12	38	10	10	10		10	10	11	12	12	12	12	12																																																												
1C	EA			144		360		44	100	25	25	25		30	30	35	35	35	35	35	20																																																												
TOTAL MONTHLY PRODUCTION										5848	333	335	335	335	340	385	390	441	442	467	467	467	467	467	467	277	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	0	0	0	0	0	0	0																

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES				MONTHS TO REACH MAX AFTER D.DAY			ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT				
		MINIMUM	1-5	MAXIMUM		MINIMUM	AFTER	1 OCT	PRIOR	AFTER	1 OCT	MANUFACTURING	TIME	TOTAL	AFTER 1 OCT				
1A	UNKNOWN	25	800	1800															
1B-D,L	UNKNOWN	5	100	200				INITIAL											
1E-J	UNKNOWN	2	75	150				REORDER											
1K	UNKNOWN	10	300	600															

REMARKS:

REPORTS CONTROL SYMBOL DD-COMPAR1092		UNCLASSIFIED		PRODUCTION SCHEDULE												DATE FEBRUARY 1995					
				P-1 ITEM NOMENCLATURE																	
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT				MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)												(MAO101)					
APPROPRIATION / BUDGET ACTIVITY				FISCAL YEAR 84				FISCAL YEAR 85				FISCAL YEAR 86									
PROGRAM QUANTITY		ACCEPT PRIOR TO 1 OCT		DUE AS OF 1 OCT		CALENDAR YEAR															
FACILITY NO		FY 94		FY 96		FISCAL YEAR 84		FISCAL YEAR 85		FISCAL YEAR 86		CALENDAR YEAR 84		CALENDAR YEAR 85		CALENDAR YEAR 86		L A T E R			
		30		178		445		0		0		0		0		0		0			
TOTAL MONTHLY PRODUCTION		823		0		0		0		0		0		0		0		0			
MANUFACTURERS NAME & LOCATION		MINIMUM		1-85		MAXIMUM		MONTHS TO REACH MAX AFTER 0 DAY		ADMIN LEAD TIME				MANUFACTURING TIME				TOTAL AFTER 1 OCT			
1A UNKNOWN		25		900		1800				PRIORITY											
1B-D,L UNKNOWN		5		100		200				INITIAL											
1E-J UNKNOWN		2		75		150				REORDER											
1K UNKNOWN		10		300		600															
REMARKS:																					

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMPAR1092

DATE FEBRUARY 1995

PRODUCTION SCHEDULE
P-1 ITEM NOMENCLATURE
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

(NAO101)

REPORTS CONTROL SYMBOL DD-COMPAR1092		MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99														
				CALENDAR YEAR 97		CALENDAR YEAR 98		CALENDAR YEAR 98		CALENDAR YEAR 99														
				FISCAL YEAR 97		CALENDAR YEAR 97		FISCAL YEAR 98		CALENDAR YEAR 98		CALENDAR YEAR 99												
				MONTHS TO REACH MAX AFTER D DAY		CALENDAR YEAR 97		FISCAL YEAR 98		CALENDAR YEAR 98		CALENDAR YEAR 99												
				REACH MAX AFTER D DAY		CALENDAR YEAR 97		FISCAL YEAR 98		CALENDAR YEAR 98		CALENDAR YEAR 99												
		ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99														
		MINIMUM	MAXIMUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL													
		PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL													
MANUFACTURER'S NAME & LOCATION		MINIMUM	MAXIMUM	MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL														
1A	UNKNOWN	25	800	1800		PRIOR 1 OCT		AFTER 1 OCT		TOTAL														
1B-D,L	UNKNOWN	5	100	200		INITIAL		REORDER		TOTAL														
1E-J	UNKNOWN	2	75	160		REORDER				TOTAL														
1K	UNKNOWN	10	300	600						TOTAL														
TOTAL MONTHLY PRODUCTION		3195	185	185	185	190	190	205	235	235	235	235	235	235	175	0	0	0	0	0	0	0	0	0
		PROGRAM QUANTITY			FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99													
		PROGRAM QUANTITY			FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99													
		PROGRAM QUANTITY			FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99													
		PROGRAM QUANTITY			FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99													
		PROGRAM QUANTITY			FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		CALENDAR YEAR 99													

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UNCLASSIFIED

DATE FEBRUARY 1985

REPORTS CONTROL SYMBOL

DD-COMPARI1082

PRODUCTION SCHEDULE

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

PROGRAM QUANTITY

OTHER PROCUREMENT: ARMY 3

OTHER SUPPORT EQUIPMENT

(NA0101)

FACILITY NO	U S / M R Y	E	S	PROGRAM QUANTITY				BAL DUE AS OF	ACCEPT PRIOR TO	FISCAL YEAR 87			FISCAL YEAR 88			FISCAL YEAR 89			CALENDAR YEAR 87			CALENDAR YEAR 88			CALENDAR YEAR 89													
				FY 94	FY 95	FY 96	FY 97			FY 98	FY 99	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1M	EA			33	85			24	9	6	6	6	6	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
1N	EA			32	70			24	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
TOTAL MONTHLY PRODUCTION							203																															

REMARKS:

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES	MONTHS TO REACH MAX AFTER D DAY	ADMIN LEAD TIME		MANUFACTURING TIME	TOTAL AFTER 1 OCT
				INITIAL	REORDER		
1A	UNKNOWN	MINIMUM 25 1-6-5 600 MAXIMUM 1800		1 OCT			
1B-D,L	UNKNOWN	MINIMUM 5 1-6-5 100 MAXIMUM 200					
1E-J	UNKNOWN	MINIMUM 2 1-6-5 75 MAXIMUM 160					
1K	UNKNOWN	MINIMUM 10 1-6-5 300 MAXIMUM 600					

UNCLASSIFIED

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COM(ARI)1092

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

AIR GROUND ENGAGEMENT SYSTEM (AGES II)

(NAO101)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	5.8	17.9						

DESCRIPTION:

AGES II EXPANDS THE CURRENT MULTIPLE INTEGRATED ENGAGEMENT SYSTEM (MILES) BY INCORPORATING MILES TRAINING DEVICES FOR THE AH-64, AH-64A+, OH-58D, OH-58D WARRIOR, CH-47D, UH-60A, UH-60L AVIATION HELICOPTERS AND THE FIELD ARTILLERY GROUND/VEHICLE LASER LOCATOR DESIGNATOR (GVLDD), REFERRED TO AS THE HELIFIRE GROUND SUPPORT SYSTEM (HGSS). THE TRAINING DEVICES PROVIDE INTEGRATED AND REMOVABLE COMPONENTS FOR EYE SAFE LASER OPERATIONS TO ACCURATELY SIMULATE THE VULNERABILITY CHARACTERISTICS, WEAPON CHARACTERISTICS AND WEAPONS EFFECTS OF THE PLATFORM BEING SIMULATED. THE AGES II TRAINING DEVICES PROVIDE TRANSPARENT OPERATION TO THE CREW(S) IN EMPLOYING, OPERATING AND ENGAGING WITH THEIR WEAPON SYSTEMS USING THE ONBOARD TACTICAL WEAPON SYSTEMS WITH EYE SAFE LASERS TO SIMULATE LIVE ORDNANCE. AGES II SYSTEM FEATURES INCLUDE: EYE SAFE LASER RANGE FINDING, EYE SAFE DESIGNATION (FOR LASER GUIDED MUNITIONS - HELIFIRE AND COPPERHEAD), INTERFACES TO THE FIRE CONTROL COMPUTER (FCC), 1553 BUS, NAVIGATION SYSTEM AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE), EVENT RECORDING FOR AFTER ACTION REVIEWS, BUILT IN TEST AND VOICE MESSAGES TO THE CREW. WEAPON SYSTEMS SIMULATED INCLUDE: EYE SAFE RANGE FINDING OPERATIONS OUT TO 10 KILOMETERS, HELIFIRE SIMULATION OUT TO 8 KILOMETERS, 30 MILLIMETER CANNON SIMULATION OUT TO 3 KILOMETERS, AND HYDRA 70 ROCKET SIMULATION (DIRECT FIRE ONLY) OUT TO 6 KILOMETERS USING ALL TACTICAL MODES OF WEAPON EMPLOYMENT. AGES II IS A TRAINING SYSTEM THAT CAN BE USED FOR INDIVIDUAL, CREW, COLLECTIVE AND FORCE-ON-FORCE TRAINING. THE SIMULATIONS SIGNIFICANTLY ENHANCE THE SOLDIER'S/UNIT'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS SINCE THE PROPER WEAPON EMPLOYMENT, ENGAGEMENT TECHNIQUES AND WEAPON SYSTEM SWITCHOVER SKILLS ARE PRONE TO DECAY OVER TIME. THE AGES II DEVICES ALLOW THE FLIGHT AND GROUND CREWS TO CONDUCT SIMULATED COMBAT OPERATIONS ALLOWING EVALUATION OF CRITICAL TASKS AT HOME STATION AND THE COMBAT TRAINING CENTERS.

WEAPON SYSTEM COST ANALYSIS		A. APPROPRIATION/BUDGET		B. WEAPON		C. MANUFACTURER NAME		D. DATE	
EXHIBIT (P-5)	ACTIVITY TITLE/NO.	OPA - 3	CY 95	MODEL/SERIES/POPULAR	PLANT CITY/STATE	LOCATION	MONTH/YEAR	FEBRUARY 1995	
AIR GROUND ENGAGEMENT SYSTEM (AGES II)	(NA0101)	QTY	UNIT COST	NAME	QTY	UNIT COST	QTY	UNIT COST	CITY
WEAPONS SYSTEM	IDENT. CODE	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	TOTAL COST
COST ELEMENTS									
2. AGES II	A								
A. AH-64A + HARDWARE			163572	16030					
B. FIRST ARTICLE TEST (FY90 CONTRACT)		390							
C. ECP FOR WIRE STRIKE PROTECTION SYSTEM AND INTERNAL BORE SIGHT		5396		900					
D. AH-64A + PRODUCTION TESTING				547					
E. AH-64A + DOCUMENTATION				476					
TOTAL		5786		17953					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE AIR GROUND ENGAGEMENT SYSTEM (AGES II)										(MAO101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
2. AGES II												
A. AH-64A+FY95	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 95	AUG 96	98	163572	YES	NO			
G. OH-58D/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	7	387329	YES	NO			
H. UH-60/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	228	55143	YES	NO			
I. CH-47/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	28	66706	YES	NO			
J. HGSS/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	260	44135	YES	NO			
K. CONTROLLER DEV/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	150	11682	YES	NO			
L. AH-64A/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	APR 95	30	345222	YES	NO			

D. REMARKS

2A CONTRACT AWARD DELAYED DUE TO AH-64A MODERNIZATION PROGRAM CONFIGURATION CHANGES. AIRCRAFT BASELINE HAS NOW BEEN ESTABLISHED.
 2J HGSS/FY90 - 20 ACCELERATED HGSS DELIVERED TO FIELD ARTILLERY SCHOOL PRIOR TO FAT COMPLETION TO SATISFY AN URGENT TRAINING NEED.

REPORTS CONTROL SYMBOL
 DD-COMPARI1092
PRODUCTION SCHEDULE
 P-1 ITEM NOMENCLATURE
 AIR GROUND ENGAGEMENT SYSTEM (AGES II)
 (MAO101)

FACILITY NO	U / M / R / V	S	PROGRAM QUANTITY							ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99																								
			FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00			CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99				CALENDAR YEAR 98				CALENDAR YEAR 99																																
2A	EA								18	82																																																		
TOTAL MONTHLY PRODUCTION										18	82																																																	

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME			TOTAL AFTER 1 OCT
		MINIMUM	1-5-5	MAXIMUM	BEFORE 1 OCT	AFTER 1 OCT	PRIOR 1 OCT	MANUFACTURING TIME		
2G.1	LORAL, POMONA, CA	2	20	70						
2H	LORAL, POMONA, CA	8	35	120						
2A.I.K	LORAL, POMONA, CA	5	30	120						
2J	LORAL, POMONA, CA	8	40	138						

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR)1092

DATE FEBRUARY 1995

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT: ARMY 3

OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE
SIMULATION TRAINING - ARMOR (GUARDFIST I)

(MAO101)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	1.1	6.7	10.1	6.3				

DESCRIPTION:

GUARDFIST I CONSISTS OF INTERACTIVE SCENARIOS VIEWED THROUGH VISION BLOCKS FOR THE DRIVER, THE PERISCOPE/TELESCOPE FOR THE GUNNER, AND COMMANDER'S WEAPON STATION (UNITY WINDOW)/GUNNER'S PRIMARY SITE EXTENSION. A SERIES OF TARGETS, HAVING FREEDOM OF MOVEMENT, WILL BE INTRODUCED BY A SCENARIO CONTROLLER. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND INSTITUTIONAL TRAINING EXERCISES.

JUSTIFICATION:

THERE EXISTS IN THE ARMY NATIONAL GUARD (ARNG) AN IMMEDIATE NEED TO IMPROVE THE TRAINING OPPORTUNITY/PROFICIENCY OF ITS M1 ARMOR CREWMEN. THESE ARMOR CREWMEN NEED A REALISTIC, STRESS-FILLED SIMULATED COMBAT TRAINING DEVICE AVAILABLE AT THEIR LOCAL ARMORY THAT CAN PROVIDE THEM WITH A SERIES OF RELATIVE, INTERACTIVE BATTLEFIELD SCENARIOS FOR TANK GUNNERY, DRIVING, AND TACTICAL EXERCISES. THE DEVICE WILL BE APPENDED TO A TANK IN ORDER TO MAXIMIZE REALISTIC TACTICAL SENSATIONS AND BE DESIGNED TO ALLOW EACH CREW MEMBER TO ATTAIN AND SUSTAIN THE SKILLS REQUIRED BY HIS DUTY POSITION. THE GUARDFIST I DEVICE WILL RESULT IN INCREASED CREW GUNNERY/TACTICAL PROFICIENCY AT FAR LESS COST FOR AMMUNITION, FUEL, TRAINING AREAS, AND MAINTENANCE AVOIDANCE THAN A STRATEGY WITHOUT THIS DEVICE. FY96-FY97 CONTINUES THE PRODUCTION OF THE GUARDFIST I PROGRAM, AND THROUGH FY97 115 DEVICES WILL HAVE BEEN PROCURED OF THE APPROVED TOTAL REQUIREMENT OF 261 SYSTEMS.

WEAPON SYSTEM COST ANALYSIS		A. APPROPRIATION/BUDGET			B. WEAPON		C. MANUFACTURER NAME		D. DATE	
EXHIBIT (P-5) GUARD UNIT ARMOR DIVICE FOR FULL-CREW INTERACTIVE SIMULATION TRAINING - ARMOR (GUARDFIST I)		ACTIVITY TITLE/NO.		MODEL/SERIES/POPULAR NAME		PLANT CITY/STATE LOCATION		MONTH/YEAR		
WEAPONS SYSTEM COST ELEMENTS		CY 95	QTY	QTY	BY 1 96	BY 2 97	QTY	QTY	FEBRUARY 1995	
IDENT. CODE		UNIT COST	TOTAL COST	TOTAL COST	UNIT COST	UNIT COST	TOTAL COST	TOTAL COST	TOTAL COST	
3. GUARDFIST I		A								
A. HARDWARE		277142	21	5820	190590	47	9333	191964	28	5375
B. TRANSIT CASES		380	357	135	380	799	304	380	476	181
C. PRODUCTION QUALIFICATION TEST		570								
D. CONTRACTOR ENGINEERING SUPPORT		261		221			116			151
E. CONTRACTOR TEST SUPPORT		230		87						
F. ADA SOFTWARE MAINTENANCE SUPPORT										190
G. INTERIM CONTRACTOR LOGISTICS SUPPORT				134						297
H. ECPS				227			260			78
I. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT				42			42			42
J. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT		1061		6666			10133			6314

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-5A

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE
SIMULATION TRAINING - ARMOR (GUARDFIST I)

(NAO101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
3A. GUARDFIST I/FY93	IND DATA LINK SAN DIEGO, CA	C/FP W/OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 93	DEC 94	31	346290	YES	NO	
3A. GUARDFIST I/FY95	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	OCT 95	21	277142	YES	NO	
3A. GUARDFIST I/FY96	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAY 96	47	198590	YES	NO	
3A. GUARDFIST I/FY97	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAY 97	28	191964	YES	NO	
3B. TRANSIT CASES/FY93	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	AUG 94	DEC 94	527	380	YES	NO	
3B. TRANSIT CASES/FY95	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	OCT 95	357	380	YES	NO	
3B. TRANSIT CASES/FY96	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAY 96	799	380	YES	NO	
3B. TRANSIT CASES/FY97	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAY 97	476	380	YES	NO	

D. REMARKS

LOW RATE INITIAL PRODUCTION WITH OPTIONS. UNIT COST IS AVERAGE COST OF ALL UNITS IN A LOT.

ADA SOFTWARE (SW) MAINTENANCE SUPPORT IS A ONE-TIME OPTION IN THE CONTRACT TO PROVIDE A SPECIAL SW MAINTENANCE CAPABILITY "TOOL" FOR IN-HOUSE GOVERNMENT USE. THE CONTRACTOR WILL PERFORM THE NECESSARY SW MAINTENANCE DURING FY95 & FY96 AS PART OF INITIAL START-UP REQUIREMENTS. THE GOVERNMENT WILL ASSUME THIS SW MAINTENANCE FUNCTION DURING FY97.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DATE FEBRUARY 1995

DD-COM(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENTTANK WEAPONS GUNNERY SIMULATION SYSTEM/
PRECISION GUNNERY SYSTEM (TWGSS/PGS)

(NA0101)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	1.4	11.9	24.3	21.9	21.9	19.9	10.9	

DESCRIPTION:

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT. SYSTEM SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSS/PGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILT (FORWARDS/BACKWARDS), CANT (SIDE/SIDE), AND DEFILADE CONDITION TO DETERMINE TARGET VULNERABILITY.

JUSTIFICATION:

TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSS/PGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY, ACTIVE AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP BY THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THUS, WEAPONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSS/PGS, WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMY RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LOCAL TRAINING AREA, MAJOR TRAINING AREA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND MAKE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSS/PGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY TRAINING CAPABILITY ANYTIME, ANYWHERE. THE FIRST OPTION TO THE CONTRACT FOR HARDWARE AFTER SATISFACTORY COMPLETION OF PRODUCTION QUALIFICATION TEST, WILL PROCURE 115 TWGSS (M1M1A1) UNITS AND 74 PGS (M2M3) UNITS. THE FY96 - FY97 OPTIONS WILL CONTINUE PROCUREMENT OF REQUIRED TWGSS/PGS UNITS.

WEAPON SYSTEM COST ANALYSIS		A. APPROPRIATION/BUDGET		B. WEAPON		C. MANUFACTURER NAME		D. DATE		
EXHIBIT (P-5) TANK WEAPONS GUNNERY SIMULATION SYSTEM (TWGSS)		ACTIVITY TITLE/NO.		MODEL/SERIES/POPULAR		PLANT CITY/STATE LOCATION		MONTH/YEAR		
PRECISION GUNNERY SYSTEM (PGS)		OPA - 3		NAME		BY2 97		FEBRUARY 1995		
WEAPONS SYSTEM		QTY		QTY		QTY		QTY		
COST ELEMENTS		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST		
		CY 95		BY1 96		BY2 97				
		UNIT COST		UNIT COST		UNIT COST				
		FY 94		CY 95		BY1 96		BY2 97		
		UNIT COST		UNIT COST		UNIT COST		UNIT COST		
IDENT. CODE		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST		
5. TWGSS/PGS	A									
A. TWGSS (M1/M1A1)			62611	115	7200	52090	266	13856	228	12855
B. PGS (M2/M3)			62577	74	4631	52091	198	10314	163	9048
C. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT								52		52
D. CONTRACTOR ENGINEERING SUPPORT		100								
E. PRODUCTION QUALIFICATION TESTING		700								
F. ECPS		612			60			43		101
				1412						
					11891			24265		21856

BUDGET PROCUREMENT HISTORY AND PLANNING EXP (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE TANK WEAPONS GUNNERY SIMULATION SYSTEM/ PRECISION GUNNERY SYSTEM (TWGSS/PGS)										(NAO101)	
	COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D		IF YES, WHEN AVAILABLE
5. TWGSS/PGS												
A. TWGSS/FY92	SAAB TRNG SYS SWEDEN	C/FPI	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 92	APR 95	42	159612	YES	NO			
B. PGS/FY92	SAAB TRNG SYS SWEDEN	C/FPI	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 92	APR 95	21	174912	YES	NO			
A. TWGSS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	AUG 95	115	62611	YES	NO			
B. PGS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	AUG 95	74	62577	YES	NO			
A. TWGSS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAR 96	266	52090	YES	NO			
B. PGS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAR 96	198	52091	YES	NO			
A. TWGSS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAR 97	228	55507	YES	NO			
B. PGS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAR 97	163	55509	YES	NO			

D. REMARKS
CHANGE IN PRODUCTION QUANTITIES FOR FY95 REFLECT INCREASE IN UNIT PRICE WITH ADDITION OF ECPS. INCREASES ARE BUDGET ESTIMATES AS PRICE HAS NOT BEEN NEGOTIATED.
FY96 UNIT COSTS ARE LOWER THAN FY97 UNIT COSTS DUE TO THE FOLLOWING FACTORS: 1.) BUYING FEWER QUANTITIES IN FY 97; AND 2.) CONTRACTOR'S PLANNED PRODUCTION FOR ALL CUSTOMERS IS HIGHER IN FY96 THAN FY97, PROVIDING LOWER OVERHEAD/G&A COSTS. THESE ARE OPTION PRICES IN A FIXED PRICE CONTRACT WHICH WAS BASED ON A COMPETITIVE ACQUISITION.

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMPARI1092

DATE FEBRUARY 1995

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

TANK WEAPONS GUNNERY SIMULATION SYSTEM/
PRECISION GUNNERY SYSTEM (TWGSS/PGS)

(MAO101)

FACILITY NO	U S / E M R V	PROGRAM QUANTITY												BAL DUE		ACCEPT			FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96																														
		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		OCT 10CT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		115	74	0	42	21	115	74	268	198	228	163																																																				
TOTAL MONTHLY PRODUCTION												1107																																																				

REMARKS:

CONTRACT AWARDED 30 SEP 92. MONTHLY PRODUCTION RATE CAPABILITIES ARE 200 PER MONTH.
CONTRACTOR IS CURRENTLY IN PRODUCTION FOR SAME ITEM FOR OTHER COUNTRIES. THERE IS NO BREAK
IN HIS PRODUCTION OR RAPID RAMP-UP. POT COMPLETED IN DEC 94.

FACILITY NO	MANUFACTURERS NAME & LOCATION	MINIMUM	1-85	MAXIMUM	MONTHS TO REACH MAX AFTER DAY	ADMIN LEAD TIME			MANUFACTURING TIME		TOTAL
						PRIOR 10CT	AFTER 10CT	INITIAL	REORDER	PRIOR 10CT	AFTER 10CT
5	SAAB TRNG SYS, HUSKVARNA, SWEDEN	1	200	300		11	31	42			42
						0	6	6			6

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

P-1 ITEM NOMENCLATURE
NSTD COMMAND AND CONTROL
(NAO103)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	9.4	3.0	4.8	6.0	.6	21.2	19.9	22.9

DESCRIPTION:

CORPS BATTLE SIMULATION (CBS) IS A HANDS-ON SIMULATION WHICH SUPPORTS TRAINING OF A CORPS COMMANDER AND HIS BATTLE STAFF, MAJOR SUBORDINATE ELEMENTS HEADQUARTERS OF THE CORPS IN THE CONDUCT OF DEEP OPERATIONS AND AIR-LAND BATTLE. IT EXERCISES THE COMMAND AND STAFF SKILLS IN THE CONTROL OF JOINT OPERATIONS/TACTICAL FORCES, COMBINED ARMS FORCES, MANEUVER FORCES, AND THE COMBAT SERVICE SUPPORT SYSTEMS IN AN OPERATIONAL/TACTICAL ENVIRONMENT. IT CONSISTS OF A COMPUTER MODEL WHICH INTERFACES WITH EXERCISE CONTROLLERS AND ROLE PLAYERS VIA WORKSTATIONS. BRIGADE/BATTALION BATTLE SIMULATION (BBS) IS AN AUTOMATED SIMULATION TO TRAIN BRIGADE/BATTALION COMMANDERS AND STAFFS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN ON THE MODERN BATTLEFIELD. BATTALION/BRIGADE CPX AND COMMAND AND STAFF MODES WILL BE FIELDED AS WELL AS A BRIGADE SEMINAR MODE. JANUS IS AN AUTOMATED SIMULATION TO TRAIN THE COMPANY/PLATOON COMMANDERS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN IN CLOSE BATTLE. THE FY96/FY97 PROGRAM WILL BEGIN THE PRODUCTION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) WHICH CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATIONS.

JUSTIFICATION:

AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT AND COMBAT SUPPORT FUNCTIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BATTLE PROJECTION CENTERS AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM
(CSSTSS)

(NAO103)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			4.3	6.0				

DESCRIPTION: THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATION. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS NOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DOES NOT DISCERN THE PRESENCE OF THE COMPUTERS MODEL DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT TRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED.

JUSTIFICATION: AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT AND COMBAT SUPPORT FUNCTIONS. MANY COMBAT BATTLE SIMULATIONS HAVE BEEN DELIVERED TO TRAIN COMMANDERS AT VARIOUS LEVELS. FEW SIMULATION DEVICES HAVE BEEN DEVELOPED TO SPECIFICALLY FILL THE LOGISTICS TRAINING NEEDS. THE CSSTSS WILL PROVIDE THE TRAINING NECESSARY TO DO THE BEHIND THE LINES LOGISTICS FUNCTIONS ADDRESSING MEDICAL, SUPPLY, PERSONNEL, TRANSPORTATION, MAINTENANCE, AMMUNITION, PETROLEUM, OIL, LUBRICANTS, AND OTHERS. LINKING THE COMBAT FUNCTIONS (CORPS BATTLE SIMULATION) TO COMBAT SERVICE SUPPORT FUNCTIONS (CSSTSS) WILL PROVIDE A REAL TIME INTERACTIVE ENVIRONMENT TO ACTIVE TRAINING OBJECTIVES IN THE NEW FORCE PROJECTION ARMY. BENEFITS WILL BE REALIZED IN LOUISIANA MANEUVERS, ANNUAL LOGISTICS EXERCISES, AND SCHEDULED EXERCISES AT CORPS, RESERVE UNITS AND OTHER LOCATIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BATTLE PROJECTION CENTERS (BPC'S) AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97, AT THE SAME CORPS SITES.

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

Weapon System Cost Elements	Ident. Code	CSSTSS (NA0103)		A. Appropriation/Budget OTHER PROCUREMENT ARMY: ARMY OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME UNKNOWN		D. DATE FEBRUARY 1995
		FY 94 Unit Cost	FY 95 Unit Cost	Qty Total Cost	CY 95 Unit Cost	Qty Total Cost	BY1 96 Unit Cost	BY2 97 Unit Cost	Qty Total Cost	Qty Total Cost
1. COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) HARDWARE SUITE	B									
A. FULL HARDWARE SUITE - MAINFRAME PLUS 39 WORKSTATIONS			11000	3 / 3300		11000			11000	2 / 2200
B. AUGMENTATION EQUIPMENT (ALL SITES ALREADY HAVE HARDWARE)			255750	4 / 1023		255750			713000	2 / **1426
C. PARTIAL SUITES - (REMOTE SITES WITHOUT HARDWARE - NO MAINFRAME WORKSTATIONS AND AUX EQUIP)									800000	3 / 2400
** OCONUS COSTS INCREASE DUE TO SHIPPING AND SITE PREPARATION										
										6026

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT ARMY: ARMY 3		C. P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) (NA0103)			A. DATE					
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
A CSSTSS/FY96	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Apr-96	Aug-96	3	11000	NO		Oct-95
A CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Mar-97	2	11000	NO		Oct-95
B CSSTSS/FY96	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-95	Jan-96	4	255750	NO		Oct-95
B CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Nov-96	DEC 96	2	713000	NO		Oct-95

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE 'FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT ARMY: ARMY 3 OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
C CSSTSS/FY97	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-96	Apr-97	3	800000	NO		Oct-95

D. REMARKS

CODE "B" ITEM DESCRIPTION DATE FEBRUARY 1995 REPORT CONTROL SYMBOL DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (NAO103)
 OTHER PROCUREMENT: ARMY 3 (CSSTSS)
 OTHER SUPPORT EQUIPMENT

CURRENT DEVELOPMENT AND TEST STATUS

SCHEDULE DATE			REASON FOR DELAY
CURRENT	LAST REPORTED		
JUN 95 AUG 95 NOV 95 OCT 95	MAR 95 MAR 95 AUG 95 OCT 95	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL OR PERFORMANCE SPECIFICATIONS	RESOLUTION OF TECHNICAL DIFFICULTIES RESOLUTION OF TECHNICAL DIFFICULTIES OTP LATE: RESOURCE AVAILABILITY

ESTIMATED DATE OF APPROVAL FOR SERVICE USE SPECIAL IPR FOR INITIAL HARDWARE PROCUREMENT / AUG 95 (AFTER BLOCK I TEST)
 EQUIPMENT ITEM(S) TO BE REPLACED FORT LEE (CASCOM) ASSULT MODEL (RENAMED CSSTSS 1.0)

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED MORE CURRENT HARDWARE AND SOFTWARE, DOCUMENTATION IMBEDDED TRAINING CAPABILITY, GRAPHICS ADDED.

DEVELOPMENT CONTRACT INFORMATION

RT&E FUNDING PROFILE (\$ IN MILLIONS)							
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
SAIC	ORLANDO, FL	CSSTSS 2.0	15.564	5.692	3.919		
TOTAL RT&E FUNDING			15.564	5.692	3.919		

REMARKS FY96 FUNDS ARE FOR SOFTWARE MAINTENANCE POST DELIVERY MODIFICATIONS TO ACCOMMODATE CHANGES.

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
RANGE TARGETRY

(NA0105)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	16.8	10.6	13.1	13.1	13.2	13.2	17.9	21.0

DESCRIPTION:

THE REMOTE TARGET SYSTEM (RETS) CONSISTS OF RANGES WITH STATIONARY AND MOVING INFANTRY AND ARMOR TARGETS THAT PORTRAY REALISTIC OPPOSING THREAT USING SIMULATED BATTLEFIELD CONDITIONS. RETS CONSISTS OF MANY COMPONENTS THAT ARE TAILORED TO 14 DIFFERENT RANGE CONFIGURATIONS. RANGE DESIGNS PROVIDE TRAINING FOR BASIC AND ADVANCED RIFLE MARKSMANSHIP AND COMBINED ARMS TRAINING OF M1 TANK AND BRADLEY FIGHTING VEHICLES (M2 IFV/M3 CFV), AERIAL GUNNERY, COBRA, AND APACHE ATTACK HELICOPTER, ADA, AND VULCAN.

JUSTIFICATION:

RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT.

P-1 SHOPPING LIST

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UNCLASSIFIED

EXHIBIT P-40

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
RANGE TARGETRY

(NAO105)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
QUANTITY								
COST (IN MILLIONS)	8.6	9.6	13.1	13.1	13.1	13.2	12.9	12.9

DESCRIPTION:

THE REMOTE TARGETING SYSTEM (RETS) CONSISTS OF RANGES THAT INCORPORATE INFANTRY AND ARMOR TARGETS, BOTH STATIONARY AND MOVING, THAT PORTRAY A REALISTIC OPPOSING TARGET THREAT TO THE AMERICAN SOLDIER USING SIMULATED BATTLEFIELD CONDITIONS. RETS FACILITATES TRAINING IN DETECTION, IDENTIFICATION, RAPID ENGAGEMENT AND PROPER LEADING OF MOVING TARGETS UNDER DAY/NIGHT CONDITIONS, ALL OF WHICH WILL BE REQUIRED IN A FAST-MOVING WAR. WITHOUT THIS TRAINING, THE AMERICAN SOLDIER WILL BE ILL-PREPARED FOR COMBAT. THE QUANTITIES OF EACH COMPONENT ARE TAILORED TO THE RANGE CONFIGURATION OF WHICH THERE ARE CURRENTLY 14 DIFFERENT TYPES. RANGE DESIGNS PROVIDE TRAINING FOR THE BASIC AND ADVANCED RIFLE MARKSMANSHIP PROGRAMS AND COMBINED ARMS TRAINING OF M1 TANK AND BRADLEY FIGHTING VEHICLES (M2 IFV/M3 CFV), AERIAL GUNNERY, COBRA AND APACHE ATTACK HELICOPTER, AND VULCAN. THE RETS RANGE IS OPERATED BY AN OPERATOR-PROGRAMMER VIA A COMPUTER-CONTROLLED CONSOLE LOCATED IN THE RANGE TOWER.

JUSTIFICATION:

RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT. RETS SUPPORTS TRAINING FOR THE ARMY'S MAJOR ARMOR/INFANTRY WEAPON SYSTEMS, SUCH AS M1 AND M60 TANKS, BRADLEY FIGHTING VEHICLE, HELICOPTER GUNNERY, TOW MISSILE, ALL INFANTRY RIFLE MARKSMANSHIP TRAINING AND ALL MACHINE GUN TRAINING. AUTOMATED TARGETRY CONTROL AND SCORING SIGNIFICANTLY REDUCES TRAINING TIME ALLOWING MORE UNITS TO UTILIZE THE RANGE. RETS IS THE ONLY LIVE-FIRE TRAINING SYSTEM WHICH ALLOWS COMBAT UNITS TO BE ADEQUATELY TRAINED IN A SIMULATED COMBAT ENVIRONMENT. RETS SUPPORTS ALL INDIVIDUAL AND UNIT TRAINING AND QUALIFICATION, AS WELL AS COMBINED ARMS TRAINING EXERCISES.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)
Remote Targeting System (NA0105)

Weapon System Cost Elements	Ident. Code	A. Appropriation/Budget Activity Title/No. OPA 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION UNISYS / RIDDLE		D. DATE Month/Year Feb-95	
		FY 94 Unit Cost	QTY Total Cost	CY 95 Unit Cost	QTY Total Cost	BY1 96 Unit Cost	QTY Total Cost	BY2 97 Unit Cost	QTY Total Cost
A. RANGE CONTROL STATION ARMOR	A	34361	1/34	34361	2/69	34361	2/69	34361	2/69
B. RANGE CONTROL STATION INFANTRY		22578	1/23	22578	8/181	22578	8/181	22578	8/180
C. TARGET HOLDING SET		2161	252/545	2161	262/566	2161	250/540	2161	200/432
D. SMALL ARM SIMULATOR		4071	2/8	4071	349/516	4071	1644/2432	4071	1476/2183
E. LOW POWER JUNCTION BOX		871	797/694	871	70/126	871	5/9	871	2/8
F. MOVING TARGET CAR ASSY		13213	6/79	13213	588/512	657	350/305	657	200/174
G. HIGH POWER JUNC BOX		2000	6/12	2000	266/175	657	1193/784	657	1565/1028
H. NIGHT MUZZLE FLASH SIM		635	25/16	635	5/66	13213	5/66	13213	5/66
I. DOUBLE TARGET MONITOR		561	500/281	561	41/233	5690	27/154	5690	40/228
J. ARMOR MOVING TGT CARRIER		91209	7/638	91209	5/10	2000	21/42	2174	45/98
K. TGT HOLDING MECH /TANK GUN					94/60	635	25/16	635	15/9
L. TARGET INTERFACE UNIT		2731	10/27	2731	412/154	374	143/53	374	29/11
M. TANK GUN SIMULATOR		2096	173/363	2096	200/112	561	88/49	561	50/28
N. 3D TARGET		9	500/5	9	10/912	450	253/114	450	214/96
O. CENTRAL MODEM		442	36/16	442	124/785	6332	30/190	6332	11/675
P. REMOTE MODEM		4096	3/12	4096	30/82	2731	21/57	2731	80/507
Q. ADAPTER AUX OPERATION		9024	3/27	9024	119/249	2096	350/734	2096	10/27
R. RANGE INSTALLATION			1404		21/36				24/50
S. STORAGE			180					10	1742/17
T. SYSTEM TECH SUPPORT			394		20/9			442	4/2
U. GOVT IN-HOUSE ENG SUPPORT			716		5/20			4096	5/20
V. TECH DATA PKG MAINT			398		3/27			9024	3/27
W. QUALITY ASSURANCE SUPPORT			85		2044			1733	1865
X. ENGR CHANGE PROPOSALS			100		180			180	180
Y. VAR TARGETRY HAITI			1150		404			416	429
Z. PORTABLE RETS (PRETS)					782			1118	1187
AA. OTHER SUPPORT			1384		374			568	616
			8591		92			57	53
					100			100	100
					1150			1500	1500
								713	667
								13083	13056

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

C. P-1 ITEM NOMENCLATURE
Remote Targeting System (RETS) (NA0105)

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
A. RCSA/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	1	34361	YES	NO	
RCSA/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	2	34361	YES	NO	
RCSA/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 96	2	34361	YES	NO	
RCSA/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	May 97	1	17452	YES	NO	
RCSA/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	34361	YES	NO	
RCSA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	3	17452	YES	NO	
B. RCSI/ FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	1	22578	YES	NO	
RCSI/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	8	22578	YES	NO	
RCSI/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 96	8	22578	YES	NO	
RCSI/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	8	22578	YES	NO	
RCSI/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	1	15819	YES	NO	
C. ITM/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	252	2161	YES	NO	
ITM/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	262	2161	YES	NO	
ITM/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Sep 96	349	1479	YES	NO	
ITM/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	250	2161	YES	NO	
ITM/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1644	1479	YES	NO	
ITM/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	200	2161	YES	NO	
ITM/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	1476	1479	YES	NO	
D. IHFS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	2	4071	YES	NO	
IHFS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	2	4071	YES	NO	
IHFS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jun 96	70	1798	YES	NO	
IHFS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Mar 97	2	4071	YES	NO	
IHFS/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Mar 97	5	1798	YES	NO	
IHFS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	4071	YES	NO	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY		Other Support Equipment				C. P-1 ITEM NOMENCLATURE				Remote Targeting System (RETS)		(NA0105)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
E. LPJB/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep-94	Mar-96	797	871	YES	NO				
LPJB/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Sep 96	588	871	YES	NO				
LPJB/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Nov 96	266	657	YES	NO				
LPJB/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	350	871	YES	NO				
LPJB/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1193	657	YES	NO				
LPJB/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Jun 97	200	871	YES	NO				
LPJB/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Jul 97	1565	657	YES	NO				
F. IMTC/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	6	13213	YES	NO				
IMTC/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	May 96	5	13213	YES	NO				
IMTC/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jun 96	41	5690	YES	NO				
IMTC/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	5	13213	YES	NO				
IMTC/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	27	5690	YES	NO				
IMTC/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	5	13213	YES	NO				
IMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Aug 97	40	5690	YES	NO				
G. HPJB/FY94	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Dec 95	6	2000	YES	NO				
HPJB/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Mar 96	5	2000	YES	NO				
HPJB/FY96	UNKNOWN	OPTION	ACALA, Rock Island, IL	Mar 95	Apr 96	21	2000	YES	NO				
HPJB/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Sep 97	45	2174	YES	NO				
H. INMFS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	25	635	YES	NO				
INMFS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	94	635	YES	NO				
INMFS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Sep 96	412	374	YES	NO				
INMFS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Mar 97	25	635	YES	NO				
INMFS/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Mar 97	143	374	YES	NO				
INMFS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	15	635	YES	NO				
INMFS/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep-97	29	374	YES	NO				

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement: Army 3

C. P-1 ITEM NOMENCLATURE
Remote Targeting System (RETS)

D. REMARKS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS		SPEC REV REQ'D	IF YES, WHEN AVAILABLE
								AVAILABLE NOW	IF YES, WHEN AVAILABLE		
I. DTA/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	500	561	YES	NO	NO	
DTA/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Apr 96	200	561	YES	NO	NO	
DTA/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	88	561	YES	NO	NO	
DTA/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	253	450	YES	NO	NO	
DTA/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	50	561	YES	NO	NO	
DTA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	214	450	YES	NO	NO	
J. AMTC/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	7	91209	YES	NO	NO	
AMTC/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	May 96	10	91209	YES	NO	NO	
AMTC/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Aug 96	9	91209	YES	NO	NO	
AMTC/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	5	91209	YES	NO	NO	
AMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Oct 97	11	61344	YES	NO	NO	
K. THMTG/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Jul 95	Oct 96	124	6332	YES	NO	NO	
THMTG/FY96	UNKNOWN	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	30	6332	YES	NO	NO	
THMTG/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Aug 97	80	6332	YES	NO	NO	
L. TIU/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	10	2731	YES	NO	NO	
TIU/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	30	2731	YES	NO	NO	
TIU/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	21	2731	YES	NO	NO	
TIU/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	10	2731	YES	NO	NO	
M. ATKS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	173	2096	YES	NO	NO	
ATKS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	119	2096	YES	NO	NO	
ATKS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jul 96	21	1734	YES	NO	NO	
ATKS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	350	2096	YES	NO	NO	
ATKS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	24	2096	YES	NO	NO	

P-1 SHOPPING LIST

Previous editions are obsolete

DD Form 2446-1, JUL 87

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY		Other Support Equipment				C. P-1 ITEM NOMENCLATURE					Remote Targeting System (RETS)		Specs Available Now		Spec Rev Req'd	If Yes, When Available	
Other Procurement: Army 3	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	RETS	RETS	RETS	RETS	RETS	RETS	RETS	RETS	RETS	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	RETS	RETS	RETS	RETS	RETS	RETS	RETS	RETS	RETS	RETS
N. 3D TGT/FY94	RIDDLE COR	C/FFP	ACALA, Rock Island, IL	Aug 94	Apr 95	500	9							YES	NO		
3D TGT/FY96	RIDDLE COR	C/FFP	ACALA, Rock Island, IL	Dec 95	May 96	940	9							YES	NO		
3D TGT/FY97	RIDDLE COR	OPTION	ACALA, Rock Island, IL	Dec 96	May 97	1742	10							YES	NO		
O. MOD/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	36	442							YES	NO		
MOD/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	20	442							YES	NO		
MOD/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	4	442							YES	NO		
MOD/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	4	442							YES	NO		
P. RMOD/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	3	4096							YES	NO		
RMOD/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	5	4096							YES	NO		
RMOD/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	5	4096							YES	NO		
RMOD/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	5	4096							YES	NO		
Q. AAO/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	3	9024							YES	NO		
AAO/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Apr 96	3	9024							YES	NO		
AAO/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	3	9024							YES	NO		
AAO/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	3	9024							YES	NO		

D. REMARKS

UNCLASSIFIED

P R O D U C T I O N S C H E D U L E

DATE FEBRUARY 1995

FACILITY NO	U / M	S R / V	PROGRAM QUANTITY					ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	P-1 ITEM NOMENCLATURE RANGE TARGETY (HA0105)																													
			FY 93	FY 94	FY 95	FY 96	FY 97			FY 98	FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 00																						
											OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
			EA	A	EA	A	EA			A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A	EA	A			
1A/B						10	4	6																															
1C						1476	156	1320	250	250	250	250	70																										
1E						1565	900	665	300	300	65																												
1G						45	9	36	9	9	9																												
1J						11	0	11	6	5																													
TOTAL MONTHLY PRODUCTION							1069	2038	567	566	326	259	250	70	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

REMARKS: PRODUCTION RATES N/A DUE TO MIX OF ITEMS. PLT N/A DUE TO QUANTITY OF DIFFERENT ITEMS BEING PROCURED.
FY93 QUANTITIES REFLECT ACTUAL CONTRACT DELIVERY SCHEDULES.

FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY				PROCUREMENT LEAD TIME		ADMIN LEAD TIME		TOTAL MANUFACTURING AFTER 1 OCT
		MINIMUM	1-8-5	MAXIMUM	MINIMUM	MAXIMUM	PRIOR 1 OCT	AFTER 1 OCT	INITIAL	REORDER			
FY93	RMS TECH, NEWPORT NEWS, VA												
FY94-97	UNITSYS CORP												

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UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
NSTD FIRE SUPPORT-AIR DEFENSE

(NA0106)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	31.5	13.7	3.3	16.9	1.5			8.7

DESCRIPTION:

THE GUARD UNIT ARMORY DEVICE FOR FULL CREW INTERACTIVE SIMULATION TRAINING - ARTILLERY (GUARDFIST II) IS AN INTERACTIVE VIDEO DISC DISPLAY SYSTEM THAT TRAINS THE FORWARD OBSERVER (FO) IN A STAND-ALONE OR TOGETHER WITH THE FIRE DIRECTION CENTER (FDC) AND THE HOWITZER CREW IN AN INTERACTIVE MODE. GUARDFIST II TRAINS THE FO IN TARGET IDENTIFICATION AND CALL-FOR-FIRE, PROVIDES FDC PERSONNEL EXERCISE IN COMMUNICATIONS AND COMPUTING TARGETS AND EXERCISES HOWITZER CREWS IN SETTING AZIMUTH AND ELEVATION. THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAME-RF) PORTRAYS THE EFFECTS OF FRIENDLY AND HOSTILE INDIRECT FIRE, MORTARS, MINES AND NON-PERSISTENT CHEMICAL CONTAMINATION. THIS SYSTEM WILL BE FIELDED INITIALLY TO THE THREE COMBAT TRAINING CENTERS (CTC) FOR FORCE-ON-FORCE TRAINING. SAME-RF COMBINES RADIO FREQUENCY AND GLOBAL POSITIONING SYSTEM TECHNOLOGIES TO PERFORM REALTIME, OBJECTIVE CASUALTY ASSESSMENT ON EQUIPPED SOLDIERS AND VEHICLES WITHIN THE APPROPRIATE HIT/NEAR MISS AREAS.

JUSTIFICATION:

FY 96 FUNDS ARE REQUIRED TO AWARD CONTRACT OF SAME-RF TO PROVIDE INSTRUMENTATION REQUIRED AT THE NATIONAL TRAINING CENTER (NTC) AND THE JOINT READINESS TRAINING CENTER (JRTC). FY 97 FUNDS PROVIDE INITIAL SPARES AND REQUIRED ENGINEERING CHANGE PROPOSALS.

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE: SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) (NA0106)

APPROPRIATION / BUDGET ACTIVITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT								
QUANTITY								
COST (IN MILLIONS)	29.5	9.4	3.3	16.9				

DESCRIPTION:

THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTC) TO SUPPORT FORCE-ON-FORCE TRAINING. BOTH SIDES, BLUEFOR AND OPFOR, ARE EQUIPPED WITH THESE TRAINING DEVICES. FY95 MARKS THE END OF THE BASELINE PRODUCTION CONTRACT, WITH ENGINEERING CHANGE PROPOSAL DELIVERIES ENDING IN FY96. FY96 ESTABLISHES THE REPROCUREMENT PROCESS TO COMPLETE THE BUYOUT OF MINIMUM ESSENTIAL DEVICE QUANTITIES FOR TRAINING AT THE CTC'S. THE DEVICE REPROCUREMENT WILL BE CONDUCTED UNDER RULES OF FULL AND OPEN COMPETITION. THIS FOLLOW-ON CONTRACT INCLUDES HARDWARE BUYS OF THE PLAYER DETECTION DEVICES (PDD) (RECONFIGURED TO TAKE ADVANTAGE OF MATURING TECHNOLOGIES AND ERGONOMICS); MITS KITS TO INSTRUMENT UNIT ADMIN/LOGISTICS VEHICLES AND FIXED TARGETS; AUDIOVISUAL CUE DEVICES FOR WEAPONS SYSTEMS, CHEMICAL AGENT ALARM SETS; AND VEHICLE DETECTION DEVICES (VDD) FOR UNIT COMBAT VEHICLES.

JUSTIFICATION:

SINCE FY91 THE SAWE-RF AND MILES II PROCUREMENT PROGRAMS HAVE BEEN INTEGRATED TO SUPPORT COMBINED TACTICAL ENGAGEMENT SIMULATION AND CASUALTY ASSESSMENT INSTRUMENTATION REQUIRED TO SUSTAIN REALISTIC FORCE-ON-FORCE TRAINING EXERCISES AT THE THE THREE MANEUVER COMBAT TRAINING CENTERS (CTC). SOLDIER FIGHTING SKILLS ARE HONED IN A REALISTIC COMBAT ENVIRONMENT AND LEARNING IS ENHANCED BY THE EFFECT OF INSIGHTFUL AFTER ACTION REVIEWS (AAR) USING GRAPHIC AND NUMERIC DATA RECORDED BY THE SAWE/MILES II DEVICES. FAILURE TO FUND THIS PROCUREMENT WILL RENDER NONOPERATIONAL THE INSTRUMENTATION SYSTEMS AT NTC AND JRTC (DELIVERED UNDER SEPARATE PROCUREMENT ACTIONS). THIS WILL ADVERSELY AFFECT ARMY AND AIR FORCE COMBAT READINESS.

WEAPON SYSTEM COST ANALYSIS				A. APPROPRIATION/BUDGET		B. WEAPON		C. MANUFACTURER NAME		D. DATE	
EXHIBIT (P-5) SIMULATED AREA WEAPONS				ACTIVITY TITLE/NO.		MODEL/SERIES/POPULAR		PLANT CITY/STATE LOCATION		MONTH/YEAR	
EFFECTS-RADIO FREQUENCY (SAWE-RF) (NA0106)				OPA-3		NAME				FEBRUARY 1985	
WEAPONS SYSTEM				CY 95		BY1 96		BY2 97		QTY	
COST ELEMENTS				UNIT COST		UNIT COST		UNIT COST		TOTAL COST	
IDENT. CODE				TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
1. SIMULATED AREA WEAPONS EFFECTS											
RADIO FREQUENCY (SAWE-RF)											
A. VEHICLE DETECTION DEVICE (VDD)											
B. MULTIPLE INTEGRATED TARGET SYS (MITS)				795	10335						
C. M8A1 CHEMICAL AGENT ALARM UNIT											
D. PLAYER DETECTION DEVICE (PDD)				1200	11690						
E. MINE EFFECTS SIMULATOR (ANTI-TANK)											
F. MINE EFFECTS SIMULATOR (ANTI-PERSONNEL)											
G. PRODUCTION TESTING					790						
H. ENGINEERING SUPPORT					325						
IN-HOUSE GOVERNMENT					100						
OTHER GOVERNMENT AGENCIES					584						
I. INTERIM CONTRACTOR LOGISTICS SUPPORT											
J. ENGINEERING CHANGE PROPOSALS											
H114 SPEC COMPLIANCE CLAUSE					3283						
RECHARGEABLE BATTERY VECP					646						
INTERFACE CONTROL DOCUMENT					300						
T72/T80 BMP ECP					640						
VEST REDESIGN ECP											
HIND-D											
FEMALE VOICE ECP					161						
POST TESTING MOD ECP											
JRTC REPEATERS/AMPLIFIERS					688						
NTC MCS REHOST											
NTC ELECTRONIC FENCE											
M1A2 ABRAMS MODIFICATION											
VOLCANO MINE											
STINGER											
MILES GRENADE											
					29541						

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) (NAO106)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995		
	IDENT. CODE	FY 94 UNIT COST	CY 95 TOTAL COST	QTY	BY1 96 UNIT COST	QTY	BY2 97 UNIT COST	QTY	TOTAL COST
2. SIMULATED AREA WEAPONS EFFECTS RADIO FREQUENCY (REPROCUREMENT)	A								
A. VEHICLE DETECTION DEVICE (VDD)				6	75000	450	21554	52	1121
B. MULTIPLE INTEGRATED TARGET SYS (MITS)				3	60000	180	16482	200	3296
C. M8A1 CHEMICAL AGENT ALARM UNIT				3	60000	180	19018	120	2282
D. PLAYER DETECTION DEVICE (PDD)							100000	50	5000
E. MINE EFFECTS SIMULATOR (ANTI-TANK)				25	10000	250	100	3800	380
F. MINE EFFECTS SIMULATOR (ANTI-PERSONNEL)				25	10000	250	100	3800	380
G. PRODUCTION TESTING						418			850
H. ENGINEERING SUPPORT IN-HOUSE GOVERNMENT OTHER GOVERNMENT AGENCIES						572			400
						604			473
I. INTERIM CONTRACTOR LOGISTICS SUPPORT						150			1500
J. ENGINEERING CHANGE PROPOSALS						202			1585
									16887

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	(NAO106)
										IF YES, WHEN AVAILABLE
1. SAWE-RF										
A. VDD/FY91	LORAL POMONA, CA	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 91	OCT 94	980	12900	YES	NO	
A. VDD/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	FEB 95	597	16166	YES	NO	
B. MITS/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	DEC 94	724	9845	YES	NO	
B. MITS/FY93	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 92	MAY 95	192	9382	YES	NO	
B. MITS/FY94	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUL 94	JUN 95	795	13000	YES	NO	
D. PDD/FY91	LORAL POMONA, CA	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 91	DEC 94	2408	7648	YES	NO	
D. PDD/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	MAY 95	1558	7664	YES	NO	
D. PDD/FY93	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 92	JUL 95	914	7251	YES	NO	
D. PDD/FY94	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 94	AUG 95	1200	9742	YES	NO	
E. MES (AT)/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	NOV 94	33000	65	YES	NO	
F. MES (AP)/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	NOV 94	27000	65	YES	NO	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	(NA0106)
										IF YES, WHEN AVAILABLE
2. SAWE-RF (REPROCUREMENT)										
A. VDD/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	6	75000	YES	NO	
A. VDD/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	52	21554	YES	NO	
B. MITS/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	3	60000	YES	NO	
B. MITS/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	200	16482	YES	NO	
C. M8A1/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	3	60000	YES	NO	
C. M8A1/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	120	19018	YES	NO	
D. PDD/FY97	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	50	100000	YES	NO	
E. MES-A/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	25	10000	YES	NO	
F. MES-A/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	25	10000	YES	NO	
F. MES-A/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	3800	100	YES	NO	

D. REMARKS

FY96/FY97 ITEMS ARE BEING PROCURED UNDER A NEW COMPETITIVE CONTRACT.

REPORTS CONTROL SYMBOL		UNCLASSIFIED												DATE FEBRUARY 1995																							
DD-COMPAR1002		PRODUCTION SCHEDULE																																			
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE																																			
OTHER PROCUREMENT: ARMY 3		SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)																																			
OTHER SUPPORT EQUIPMENT		(MAO108)																																			
FACILITY NO	U S E R V	FISCAL YEAR 84												FISCAL YEAR 85												FISCAL YEAR 86											
		PROGRAM QUANTITY			ACCEPT PRIOR TO 1 OCT			BAL DUE AS OF 1 OCT			CALENDAR YEAR 84				CALENDAR YEAR 85				CALENDAR YEAR 86																		
		84	85	86	84	85	86	84	85	86	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1A	EA				0	0	0	980																													
1A	EA				0	0	0	597																													
1B	EA				0	0	0	724																													
1B	EA				0	0	0	192																													
1B	EA				0	0	0	795																													
1D	EA				0	0	0	2408																													
1D	EA				0	0	0	1558																													
1D	EA				0	0	0	914																													
1D	EA				0	0	0	1200																													
1E	EA				0	0	0	33000																													
1F	EA				0	0	0	27000																													
TOTAL MONTHLY PRODUCTION								69368																													
FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT																										
		MINIMUM	1-5	MAXIMUM	BEFORE	AFTER	PRIOR	AFTER	1 OCT	1 OCT	1 OCT	1 OCT																									
1A, 1B	LORAL, POMONA, CA	25	700	1050			1 OCT	1 OCT																													
1D	LORAL, POMONA, CA	25	700	1050																																	
1E, 1F	LORAL, POMONA, CA	500	8000	13500																																	

REMARKS:
 BASIC CONTRACT ENDS SEP 86. FOLLOW-ON COMPETITIVE PRODUCTION CONTRACT IS SCHEDULED TO BE AWARDED NOV 85.
 OPERATIONAL TESTING FOR THE NEW COMPETITIVE CONTRACT IS SCHEDULED TO BE COMPLETED 4QFY86
 IT IS ASSUMED THAT THE UNKNOWN CONTRACTOR (FY86-87) WILL HAVE PRODUCTION CAPABILITY COMPARABLE TO THE EXISTING CONTRACTOR.
 DELIVERY SCHEDULE FOR #1 ITEMS ARE BASED ON CURRENT CONTRACTOR PRODUCTIONS CAPABILITIES.

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation/P-1 Line Item		Weapons System (if applicable)				Equipment Nomenclature				PE	
OPA 3 TRAINING DEVICES, NON-SYSTEM						NA0101 MILES 2000				644715	
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	0	12.4	16.5	38.5	34.0	36.8	45.9	58.2	242.3		
RDT&E	1.0	0	0	0.9	3.0	3.0	5.0	5.0	17.9		
0\$\$	24.9	25.7	25.8	21.3	21.3	21.3	21.3	21.3	182.9		

TRAINING SYSTEM DESCRIPTION:

REPLACEMENT ITEMS FOR CURRENT MILES DEVICES WHICH ARE BECOMING UNSUPPORTABLE AND UNRELIABLE DUE TO AGE. MILES IS A LASER-BASED ENGAGEMENT TRAINING SYSTEM WHICH ENCOMPASSES MAN-WORN, CREW-SERVED AND COMBAT VEHICLE SYSTEMS. PROJECTED INITIAL OPERATIONAL CAPABILITY (IOC) IS 1ST QUARTER FY96.

P-1 SHOP LIST ITEM NO.	1.56 A	PAGE NO.	1a
		EXHIBIT-43, PAGE 1 of 6	
		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item

Weapon System (if applicable)

Equipment Nomenclature

PE

OPA 3 NSTD

NAD101 MILES 2000

644715

Training Device by Type

Average Student Throughput

Ready for Training Date

Delivery Date

Site

Current Year

Budget Year 1

Budget Year 2

Qty

Cost

Qty

Cost

Qty

Cost

MILES TACTICAL ENGAG TRNG SYS

ARMY WIDE

AUG 96

AUG 96

N/A

0

0

3451

16538

8490

38521

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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date **FEBRUARY 1995**

Weapon System (if applicable)

Training Device by Type

OPA 3 NSTD

Description/Justification

NA0101 GUARDFIST I

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	31	10735	21	5820	44	8738	28	5375				
ECOs				227		242		297				
Nonrecurring												
GFE												
Other (Specify)	527	200	357	135	748	284	476	181				
TRANSIT CASES												
Total Hardware Costs		10935		6182		9264		5853				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		61										
Other (Specify) SUPPORT		373		263		236		271				
ENGINEERING SPT		699		221				190				
PROD TESTING		480										
Total Support Costs		1613		484		236		461				
Software/Courseware												
TOTAL COSTS		12548		6666		9500		6314				

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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)				Date	FEBRUARY 1995				
Appropriation P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature	PE			
OPA 3 TRAINING DEVICES, NON-SYSTEM					NA0101 TWGSSIPGS	644715			
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	15.9	11.9	24.3	21.9	22.0	20.0	11.0		127.0
RDT&E									
O&S	0.2		1.2	1.5	2.2	2.7	3.1	3.1	14.0

TRAINING SYSTEM DESCRIPTION:

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND SIMULATES BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSSIPGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILTCANT AND DEFILADE CONDITION TO DETERMINE TARGET VULNERABILITY.

TWGSSIPGS IMPROVES CREWGUNNER'S ABILITY TO RELOCATE ENEMY TANKS BY RELOCATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL AND ANGLE OF KILL WHEN ASSESSING TARGET HITS WITHOUT THIS SYSTEM. UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSSIPGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP FOR THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THIS STRATEGY'S LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSSIPGS WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMED RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LIA, MIA, ARMORY), THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSSIPGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSSIPGS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND PROVIDE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSSIPGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY CAPABILITY ANYTIME, ANYWHERE.

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				P-43 Simulator & Training Device Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item	Training Devices by Type	Site	Weapon System (if applicable)				IOC Date			Equipment Nomenclature						
			Delivery Date	Ready for Training Date	Average Student Throughput	20 FY95	Prior Years	Current Year		Budget Year 1		Budget Year 2				
								Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	
OPA 3 NSTD	TWGSS/PGS	ARMY WIDE	20 FY95	20 FY95	N/A	63	15918	189	11891	464	24295	391	21856	NA0101 TWGSS/PGS	PE	644716
			P-1 SHOP LIST ITEM NO.	156 A			PAGE NO.	EXHIBIT-43, PAGE 2 of 6								

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Training Device by Type

Weapon System (if applicable)

OPA 3 NSTD

Description/Justification

MA0101 TWGSS/PGS

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	63	11026	189	11831	484	24170	391	21703				
ECOs		612		60		73		101				
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs		11638		11891		24243		21804				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support				1081								
Other (Specify) CNTR ENG SPT				612					52			
PROD TESTING/SPT				2587								
Total Support Costs				4280					52			
Software/Courseware												
TOTAL COSTS				15918		24295		21858				

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EXHIBIT-43, PAGE 3 of 6

February 1995

Date

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)

Appropriation/P-1 Line Item		Weapon System (if applicable)				Equipment Nomenclature			PE
NON-SYSTEM TRAINING DEVICES		BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total	
OPA 3	Current FY							844715	
	Prior Years								
Fin Plan	0	4.4	6.2	6.8	0	0	1	12.2	
Quantity	21.8	3.9	3	3	3	4	4	48.4	
Proc									
RDT&E									
O&S									

TRAINING SYSTEM DESCRIPTION:

THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATIONS. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS NOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DOES NOT DISCERN THE PRESENCE OF THE COMPUTERS MODEL DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT TRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BCP'S AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.

P-1 SHIPP LIST ITEM NO.	156 A	PAGE NO.	13a
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SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)

Date FEBRUARY 1996

Appropriation P-1 Line Item NON-SYSTEM TRAINING DEVICES	OPA 3	Training Device By Type	Site	Weapon System (if applicable)		Average Student Throughput	IOC Date		Equipment Nomenclature		PE				
				Delivery Date	Ready for Training Date		Prior Years Qty	Prior Years Cost	Current Year Qty	Current Year Cost	Budget Year 1 Qty	Budget Year 1 Cost	Budget Year 2 Qty	Budget Year 2 Cost	
CSSTSS		75TH DIV HOUSTON, TX		Aug-96	Sep-96						1	1100			644715
CSSTSS		78TH DIV EDISON, NJ		Aug-96	Sep-96						1	1100			
CSSTSS		85TH DIV ARLINGTON HEIGHTS		Aug-96	Sep-96						1	1100			
CSSTSS		I CORPS FT LEWIS		Jan-96	Feb-96						1	257			
CSSTSS		III CORPS FT HOOD		Feb-96	Mar-96						1	257			
CSSTSS		V CORPS FRANKFURT, GE		Mar-96	Apr-96						1	257			
CSSTSS		XVIII CORPS FT BRAGG		Apr-96	May-96						1	257			
CSSTSS		87TH DIV BIRMINGHAM, AL		Mar-97	Apr-97								1	1100	
CSSTSS		91ST DIV CAMP DRAKE, CA		Mar-97	Apr-97								1	1100	
CSSTSS		21 TAACOM KAISERSLAUTEN, GE		Mar-97	Apr-97								1	713	
CSSTSS		EUSA SEOUL KOREA		Mar-97	Apr-97								1	713	
CSSTSS		AMMED FT SAM, TX		Apr-97	May-97								1	800	
CSSTSS		USASSC FT BEN HARRISON, IN		Apr-97	May-97								1	800	
										PAGE NO.		14a		156 A	
										P-1 SHOPP LIST ITEM NO.					

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item

Weapon System (if applicable)

IOC Date

Equipment Nomenclature

PE

OPA 3 NSTD

644715

Training Device by Type

Site

Delivery Date

Ready for Training Date

Average Student Throughput

Prior Years Qty Cost

Current Year Qty Cost

Budget Year 1 Qty Cost

Budget Year 2 Qty Cost

CSSTSS

USA OM&M C&S REDSTONE

APR 97

MAY 97

1 800

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FEBRUARY 1995

DATE

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)

OPA 3
NON-SYSTEM TRAINING DEVICES
Weapon System (if applicable)

Description/Justification

CSSTSS

NA0103

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)			7		4323	6026	7					
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs					4323	6026						
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify)												
Total Support Costs												
Software/Courseware												
TOTAL COSTS					4323	6026						

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation-P-1 Line Item		Weapons System (if applicable)					Equipment Nomenclature			PE	
OPA 3 TRAINING DEVICES, NON-SYSTEM							NAO106 SAWEMILES II			644715	
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	123.2	9.4	3.3	16.9					152.8		
RDT&E	3.1		2.6						5.7		
O&S		2.8	3.5	0.5	0.2	0.2	0.2	0.2	7.6		
TRAINING SYSTEM DESCRIPTION:											
THE SIMULATED AREA WEAPONS EFFECT-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTCs) TO SUPPORT FORCE-ON-FORCE TRAINING.											
P-1 SHOP LIST ITEM NO.		156A		PAGE NO.		17a		EXHIBIT-43, PAGE 1 of 6			
								P-43 Simulator & Training Device Justification			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item	Equipment Memorandum										PE	
	Weapon System (if applicable)					IOC Date						
	Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2
Qty						Cost	Qty	Cost	Qty	Cost	Qty	Cost
OPA 3 NSTD	MA0106 SAWE/MILES II										844715	
VDD/MITS/M8A1	CTC	10FY94 *	10FY94 *	N/A	2823	36902			62	1310	4172	7079
PDD	CTC	10FY94 *	10FY94 *	N/A	6689	55679					50	5000
OTHER PROG COSTS						29508		9445		2042		4805
AV CUE					1925	1152						
* ABOVE DATES OF 10FY94 ARE FOR OLD CONTRACT												
DATES FOR NEW CONTRACT ARE 10FY97												
					11437	123241		9445	62	3352	4222	16887
P-1 SHOP LIST ITEM NO.					PAGE NO.		EXHIBIT 43, PAGE 2 of 6					
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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Weapon System (if applicable)

Training Device by Type

OPA 3 NSTD

Description/Justification

NA1018 SAW/MILES II

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	11437	93733			62	1310	4222	12079				
ECOs			5400			202		1585				
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs		93733	5400			1512		13664				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify)		29048	4045			150		1500				
Total Support Costs		29048	4045			1690		1723				
Software/Courseware												
TOTAL COSTS		122781	9445			3352		16887				

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REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASS

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
CLOSE COMBAT TACTICAL TRAINER (CCTT)

(NAO170)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)	7.1 *	31.8	30.7	88.5	98.5	109.7	27.1	15.8

DESCRIPTION:

CLOSE COMBAT TACTICAL TRAINER (CCTT) WILL BE A NETWORKED SYSTEM OF MANNED SIMULATORS (TANK, BRADLEY, FIST-V, HIMMIV, M113A3) SUPPORTED BY EMULATORS AND SEMI-AUTOMATED FORCES THAT PROVIDE COMBAT SUPPORT, COMBAT SERVICE SUPPORT AND BOTH FRIENDLY AND OPPOSING FORCES. IT WILL TRAIN CREW THROUGH BATTALION LEVEL COMBAT ELEMENTS OF CLOSE COMBAT UNITS OF BOTH THE RESERVE COMPONENT (RC) AND ACTIVE COMPONENT (AC) IN THEIR COLLECTIVE TASKS AS DEFINED IN THE MISSION TRAINING PLAN (MTP) FOR THOSE UNITS. THE ARMY WILL FIELD 546 SIMULATORS TO TWELVE FIXED COMPANY LEVEL SYSTEMS AND TWENTY-ONE MOBILE PLATOON-LEVEL SYSTEMS. EACH FIXED SYSTEM WILL CONTAIN A MAXIMUM OF THIRTY-EIGHT SIMULATOR MODULES, IS BASED ON THE LOCATIONS OF AC DIVISIONS AND REGIMENTS, AND WILL SERVICE BOTH AC AND RC UNITS. THE MOBILE PLATOON SYSTEMS CONTAIN FOUR SIMULATOR MODULES IN THE TANK PLATOON VERSION AND SEVEN SIMULATOR MODULES IN THE INFANTRY/CAVALRY PLATOON VERSION. DEDICATED TO THE RESERVE COMPONENTS, THESE MOBILE SITES WILL BE BASED OUT OF ACTIVE COMPONENT INSTALLATION TRAINING SUPPORT CENTERS (TSC'S) BUT WILL TRAVEL TO RESERVE COMPONENT UNIT ARMORIES FOR TRAINING AT HOME STATION. EIGHT QUICKSTART SITES CONTAINING SIXTY-EIGHT TANK AND BRADLEY FIGHTING VEHICLE MODULES WILL BE FIELDED FROM LATE FY95 THROUGH FY96 INTO EXISTING SIMNET FACILITIES AFTER ABBREVIATED TESTING AND ARMY LEVEL RELEASE. THE BALANCE OF THE PRODUCTION REQUIREMENT AMOUNTS TO 11 FIXED SITE SYSTEMS AND 19 MOBILE SITE SYSTEMS.

JUSTIFICATION:

QUICKSTART IS AN OPTION UNDER THE CCTT CONTRACT WHICH PROVIDES FOR THE EARLY PRODUCTION AND FIELDING OF COMMANDER POPPED-HATCH SIMULATORS INTO FIXED FACILITY SIMNET-T SITES. THIS IS TWO YEARS PRIOR TO THE FIELDING OF THE OBJECTIVE CCTT SYSTEM. THE ACTIVE AND RESERVE COMPONENTS NEED THE CAPABILITY TO TRAIN THE TOTAL COMBINED ARMS FORCE ON A SIMULATED, FULLY INTERACTIVE REALTIME BATTLEFIELD. THE NEED IS TO TRAIN AND SUSTAIN COLLECTIVE (CREW THROUGH BATTALION) TASKS AND SKILLS IN COMMAND AND CONTROL, COMMUNICATIONS AND MANEUVER, AND TO INTEGRATE THE FUNCTIONS OF COMBAT SUPPORT AND OF COMBAT SERVICE SUPPORT UNITS. THIS IS IN RESPONSE TO URGENT TRAINING REQUIREMENT (UTR) FROM BOTH FORSCOM AND USAREUR TO REDRESS LACK OF TRAINING OPPORTUNITY FOR PLATOON MOVEMENT ROUTES. TWO ITEMS ARE NEEDED FOR THIS SOLUTION TO WORK: THESE QUICKSTART SIMULATORS WHICH WILL PROVIDE, WITH THEIR COMMANDER'S POPPED HATCH CAPABILITY, A BETTER VIEW OF THE ELECTRONIC BATTLEFIELD THAN IS AVAILABLE IN THE SIMNET-T SIMULATOR MODULES, AND ALSO IMPROVED SIMNET-T TERRAIN TO TRAIN ON. THE FY 96 FUNDS COMPLETE THE PROCUREMENT OF QUICKSTART MODULES. THE FY 97 FUNDS SUPPORT THE INITIAL PRODUCTION OF THE CCTT SYSTEM WITH THE PURCHASE OF 109 MODULES FOR FIXED SITE LOCATIONS AND 25 MOBILE MODULES.

NOTE: FY94 FUNDING FROM NON-SYSTEMS TRAINING DEVICES (NAO100) PROVIDED LONG LEAD IMAGE GENERATOR COMPONENT SETS FOR 68 QUICKSTART MODULES.

P-1 SHOPPING LIST

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EXHIBIT P-40

DD Form 2454, JUL 88

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
Weapon System Cost Elements	Ident. Code	CCTT (NA0170)	A. Appropriation/Budget OTHER PROCUREMENT ARMY: ARMY OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME		C. LORAL FEDERAL SYSTEMS COMPA ORLANDO, FL		D. DATE FEBRUARY 1998		
			Qty	Total Cost	CY 95 Unit Cost	Qty	Total Cost	BY2 97 Unit Cost		Qty	Total Cost
A. QUICKSTART IMAGE GENERATOR COMPONENT SETS	B	104000	68	*7072	859412	34	29220	34	28928		
B. QUICKSTART MODULES										545982	109 / 59512
C. FIXED SITE MODULE										1136600	25 / 28415
D. MOBILE MODULES											
E. QUICKSTART/SIMNET SYSTEM INTEGRATION							1388		610		
F. PRODUCTION ENGINEERING SUPPORT							1200		1117		593
* FUNDED FROM NA0100			7072				31808		30655		88520

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT ARMY: ARMY 3		OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE CLOSE COMBAT TACTICAL TRAINER (CCTT)				(NA0170)	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
A. QUICKSTART IMAGE GENERATOR COMPONENT SETS/ FY 94	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Mar-94	Jul-95	68	104000	YES		
B. QUICKSTART MODULES/FY95	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-94	Jul-95	34	859412	YES		
B. QUICKSTART MODULES/FY96	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-95	Mar-96	34	850824	YES		
C. FIXED SITE MODULES/FY97	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	May-97	Jul-98	109	545982	NO		Sep-95
D. MOBILE MODULES/FY97	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	May-97	Oct-98	25	1136600	NO		Sep-95

D. REMARKS

CODE "B" ITEM DESCRIPTION APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	DATE FEBRUARY 1995 P-1 ITEM NOMENCLATURE CLOSE COMBAT TACTICAL TRAINER (CCTT)	REPORT CONTROL SYMBOL DD-COMP(AR)1092 (NA0170)
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CURRENT DEVELOPMENT AND TEST STATUS		
SCHEDULE DATE		
CURRENT	LAST REPORTED	REASON FOR DELAY
MAY 96 APR 97	MAY 96 APR 97	
PLAN/ACTUAL INITIAL OPER TEST & EVAL (10T&E) PLAN/ACTUAL OPER TEST & EVAL (0T&E) PLAN/ACTUAL AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		

ESTIMATED DATE OF APPROVAL FOR SERVICE USE APR 97

EQUIPMENT ITEM(S) TO BE REPLACED

N/A

EXTENT OF IMPROVEMENT OVER ITEK(S) EQUIPMENT TO BE REPLACED

DEVELOPMENT CONTRACT INFORMATION							RT&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S			
LORAL FEDERAL SYSTEMS COMPANY	ORLANDO, FL	CCTT	88.8	51.4		20.7	12.7			
TOTAL RT&E FUNDING			88.8	51.4	59.5	20.7	12.7			

REMARKS

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)		Date							
Appropriation/P-I Line Item	Weapon System (if applicable)	Equipment Nomenclature	NAUT70 PE						
OPA 3 CCTT		Close Combat Tactical Trainer (CCTT)	644780						
Fin Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total
Quantity	34	34	134	159	136				497
Proc	7.1	31.8	88.5	98.5	109.7	27.1	15.8		409.2
RDT&E	88.8	51.4	20.7	3.1	3.2	3.2	3.2		233.1
O&S		0.4	5	7.5	13.2	13.2	13.2		52.5

TRAINING SYSTEM DESCRIPTION:

Close Combat Tactical Trainer (CCTT) will be a networked system of manned simulators (Tank, Bradley, Fist-V, HHMMWV, M113A3) supported by emulators and semi-automated forces that provide CS, CSS and both friendly and opposing forces. It will train crew through battalion level combat elements of Close Combat units of both the Reserve Component (RC) and Active Component (AC) in their collective tasks as defined in the Mission Training Plan (MTP) for those units. The Army will field 546 Simulators to twelve fixed company level systems and twenty-one Mobile Platoon-Level Systems. Each fixed system will contain a maximum of thirty-eight simulator modules, is based on the locations of AC Divisions and Regiments, and will service both AC and RC Units. The Mobile Platoon systems contain four simulator modules in the tank platoon version and seven simulator modules in the Infantry/Calvary Platoon version. Dedicated to the RC, these mobile sites will be based out of AC installation TASC's but will travel to RC unit armories for training at home stations.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	EXHIBIT-43, Page 1 of 6
157 A	1a	
P-43 Simulator & Training Device Justification		

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)														Date FEBRUARY 1995		PE 644780	
Appropriation P-1 Line Item CPA 3 CCTT		Weapon System (if applicable)				IOC Date		Oct-98		Equipment Nomenclature Close Combat Tactical Trainer (CCTT)				Budget Year 1		Budget Year 2	
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years	Current Year	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
Team/OS	Grafenwoehr	Jan-96	May-96	***			13	11.1									
Team/OS	TBD	Jun-96	Oct-96	***			6	5.2									
Team/OS	Schweinfurt	Sep-95	Jan-96	***			7	6									
Team/OS	Friedburg	Nov-95	Mar-96	***			7	6									
Team/OS	Knox	Apr-96	Aug-96	***			1	0.9	19	16.2							
Team/OS	Benning	May-96	Sep-96	***					7	5.9							
Team/OS	McCain	Jun-96	Oct-96	***					1	0.9							
Team/OS	Stewart	Feb-97	Jun-97	***					7	5.9							
Team/Fixed	Knox	Sep-98	Jan-99	***							30	16.4					
Team/Fixed	Benning	Oct-98	Feb-99	***							31	16.9					
Team/Fixed	Riley	Nov-98	Mar-99	***							38	20.7					
Team/Fixed	Grafenwoehr	Jan-99	May-99	***							10	5.5					
Team/Mobile	Benning	Feb-99	Jun-99	***							4	4.5					
Team/Mobile	Bragg	Mar-99	Jul-99	***							7	8					
Team/Mobile	McClellan	Apr-99	Aug-99	***							4	4.5					
Team/Mobile	McClellan	Jun-99	Oct-99	***							4	4.5					
Team/Mobile	McClellan	Jul-99	Nov-99	***							6	6.9					
	TOTAL						34	29.2	34	28.9	134	87.9					

* Sites per contract. Redistribution being determined based on Force Restructure.

*** Training hours & related student throughput figures vary with team performance, site utilization and training strategy for objectives trained

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)

Weapon System (if applicable)

CCTT

Description/Justification

NA0100 Close Combat Tactical Trainer (CCTT)

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	0	7072	34	29220	34	28928	134	87927	295	207100	497	360247
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs		7072	34	29220	34	28928	134	87927	295	207100	497	360247
SUPPORT COSTS												
Special SE				2688		1727		593		1100		6008
Integrated Logistics Support										42900		42900
Other (Specify)												
Total Support Costs				2688		1727		593		44000		48908
Software/Courseware												
TOTAL COSTS		7072		31808		30655		88520		251100		409155

UNCLASSIFIED

DATE FEBRUARY 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR1092

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE I
(MA0174)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)				22.2	21.0	30.2	27.3	16.7

DESCRIPTION:

THE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) IS A TWO-PHASED EFFORT TO PROVIDE TRAINING OF THE FIELD ARTILLERY GUNNERY TEAM. FSCATT PHASE I WILL PROVIDE INDIVIDUAL AND CREW-LEVEL SKILLS TRAINING. FSCATT PHASE II WILL BE A COLLECTIVE TRAINER THAT SIMULATES FIRE SUPPORT WITHIN THE COMBINED ARMS TACTICAL TRAINER. THE GOAL OF FSCATT PHASE I IS TO EXERCISE THE GUNNERY TEAM IN REALISTIC FIRE MISSIONS WITH A REDUCTION IN EXPENDITURE OF AMMUNITION AND RELATED OPERATIONAL COSTS. FSCATT PHASE I WILL PROVIDE BATTERY-LEVEL TRAINING AND FEEDBACK IN INDIVIDUAL SKILLS, CREW DRILLS, AND PARTIAL UNIT DRILLS IN EXECUTING INDIRECT FIRE MISSIONS. FSCATT PHASE I WILL MONITOR ACTIVITIES, RECORD PERFORMANCE, AND PRODUCE AFTER ACTION REVIEW REPORTS. FSCATT PHASE I WILL CONSIST OF THE FOLLOWING FIVE ELEMENTS: A SIMULATOR THAT REPLICATES AN ACTUAL M109A5 SELF-PROPELLED HOWITZER TURRET; STRAP-ON SENSORS FOR SELECTED TOWED AND SELF-PROPELLED HOWITZERS; A FIRE DIRECTION CENTER SIMULATOR; A COLLECTIVE TRAINING CONTROLLER; AND A FORWARD OBSERVER TRAINER INTERFACE. THESE FIVE ELEMENTS WILL BE LINKED TO FORM A NETWORK OF THREE TRAINING SUBSYSTEMS: THE HOWITZER CREW TRAINER (HCT) SUBSYSTEM (OR HOWITZER STRAP-ON TRAINER SUBSYSTEM); THE COLLECTIVE TRAINING CONTROL SUBSYSTEM (CTCS); AND THE FORWARD OBSERVER TRAINER. NOTE: THE GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINER (GUARDFIST II) PLAYS THE ROLE OF THE FORWARD OBSERVER IN FSCATT PHASE I, BUT GUARDFIST II IS NOT A PART OF THIS PROCUREMENT. EACH FSCATT PHASE I TRAINING SUBSYSTEM WILL BE CAPABLE OF BEING CONFIGURED TO SUPPORT STAND-ALONE, INTERACTIVE, AND CLOSED-LOOP OPERATIONAL TRAINING MODES.

JUSTIFICATION:

IN THE PAST, FIELD ARTILLERY GUNNERY TEAM TRAINING HAS BEEN CONDUCTED THROUGH THE USE OF LIVE FIRE EXERCISES WHICH LACK REALISM DUE TO SAFETY CONSTRAINTS (E.G. NO ENEMY MANEUVER, OR FIRE). THIS TRAINING IS COSTLY IN TERMS OF RANGE SUITABILITY AND AVAILABILITY, AMMUNITION EXPENDITURE AND TRAVEL RELATED POL COSTS. FISCAL CONSTRAINTS THROUGH FY06 MANDATE A SIGNIFICANT REDUCTION (APPROXIMATELY 30%) OF AMMUNITION RESOURCES FOR TRAINING UNITS. REDUCED TRAINING RESOURCES AND INCREASING AMMUNITION COSTS PROHIBIT FIRING SUFFICIENT QUANTITIES OF AMMUNITION TO ATTAIN/SUSTAIN THE REQUIRED LEVEL OF FIELD ARTILLERY GUNNERY TEAM PROFICIENCY. TO COMPENSATE FOR PROJECTED REDUCTIONS IN AMMUNITION, OTHER REALISTIC AND EFFECTIVE WEAPONS TRAINING ARE REQUIRED. EFFECTIVE USE OF FSCATT WILL TRAIN THE GUNNERY TEAM TO DELIVER ACCURATE AND PREDICTED FIRES WITHOUT THE OPERATING TEMPO (OPTEMPO) AND AMMUNITION COSTS ASSOCIATED WITH LIVE FIRE AND ALSO PERMIT INTEGRATION OF FIELD ARTILLERY UNITS INTO A COMBINED ARMS BATTLEFIELD FOR COLLECTIVE TASK TRAINING.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1

(NAO174)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. FSCATT										
A. COLLECTIVE TNG CONTROL SYS	UNKNOWN	C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	24	20000	NO		SEPT 96
B. HOWITZER CREW TRAINER	UNKNOWN	C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	16	880000	NO		SEPT 96
C. STRAP-ON TRAINER	UNKNOWN	C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	84	35000	NO		SEPT 96
D. A6 STRAP-ON TRAINER	UNKNOWN	C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	64	3000	NO		SEPT 96
E. STRAP-ON INSTRUCTOR/ OPERATOR STATION	UNKNOWN	C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	33	3000	NO		SEPT 96

D. REMARKS

CODE "B" ITEM DESCRIPTION	DATE	FEBRUARY 1995	REPORT CONTROL SYMBOL
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	DD-COMPIAR) 1092		
P-1 ITEM NOMENCLATURE			
FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE I			
(NA0174)			

CURRENT DEVELOPMENT AND TEST STATUS

		SCHEDULE DATE	
CURRENT	LAST REPORTED	REASON FOR DELAY	
JAN 96	JAN 96		
JUN 96	JUN 96		
SEP 96	SEP 96		
SEP 96	SEP 96		

DEV TEST & EVAL (DT&E) PLAN/ACTUAL
 INITIAL OPER TEST & EVAL (IOT&E) PLAN/ACTUAL
 OPER TEST & EVAL (OT&E) PLAN/ACTUAL
 AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS

ESTIMATED DATE OF APPROVAL FOR SERVICE USE DEC 96
 EQUIPMENT ITEM(S) TO BE REPLACED N/A

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED

DEVELOPMENT CONTRACT INFORMATION

DEVELOPMENT CONTRACT INFORMATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BEYOND BY'S
UNKNOWN			0.4	5.8	7.0	
TOTAL RDT&E FUNDING			0.4	5.8	7.0	

REMARKS:

1. RDT&E CONTRACT AWARD MAY 95. AWARD DELAYED DUE TO OSD DIRECTED CHANGE OF CONTRACT TYPE FROM COST-PLUS TO FIXED PRICE, AND ADDITIONAL TIME REQUIRED TO COMPLETE SOURCE SELECTION.
2. PROTOTYPES DEVELOPED MAY 95-AUG 96.
3. ACCEPTANCE TESTING OCT 96 - DEC 96.

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)				Date	FEBRUARY 1995				
Appropriation P-1 Line Item		Weapon System (if applicable)			Equipment Nomenclature		PE		
OPA 3 TRAINING DEVICES, NON-SYSTEM					MA0174 FSCATT/PHI		644715		
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc				22.2	21.0	30.2	27.3	16.7	117.4
RDT&E	0.4	5.8	7.0						13.2
O&S									

TRAINING SYSTEM DESCRIPTION:

THE FSCATT SYSTEM (PHASE I) PROVIDES FIELD ARTILLERY BATTERIES WITH THE CAPABILITIES TO CONDUCT INTEGRATED TRAINING WITH FORWARD OBSERVERS, FIRE DIRECTION CONTROLLERS AND FIRING BATTERY PERSONNEL ON A LOCAL NETWORK. FSCATT PHASE I WILL PROVIDE INITIAL AND SUSTAINMENT TRAINING FOR THE ENTIRE GUNNERY TEAM. IT WILL INTEGRATE TACTICAL EQUIPMENT AND SIMULATED HOWITZER DEVICES IN A CLOSED LOOP NETWORK AND CREATE A BATTER-LEVEL COMMAND AND CONTROL TACTICAL TRAINER. THE SYSTEM WILL ALSO PROVIDE ESSENTIAL PERFORMANCE MEASUREMENT DATA FOR THE FIELD ARTILLERY CREWS, WHILE ALSO PROVIDING A MAN-IN-THE-LOOP INPUT TO CLOSE COMBAT TACTICAL TRAINER.

P-1 SHOP LIST ITEM NO.	158 A	PAGE NO.	1A
		EXHIBIT-43, PAGE 1 of 6	
		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Appropriation/P-1 Line Item

Weapon System (if applicable)

Equipment Nomenclature

PE

OPA 3 NSTD

NA0174 FSCATT/PHI

644715

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	IOC Date		Current Year		Budget Year 1		Budget Year 2			
					30FY97		Cost		Cost		Cost		Cost	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
FSCATT/PHI	ARMY WIDE	30FY97	30FY97	N/A							221	22152		
					P-1 SHOP LIST ITEM NO.		PAGE NO.		EXHIBIT-43, PAGE 2 of 6					
					158 A		2A							

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Date FEBRUARY 1995

Training Device by Type _____
 Weapon System (if applicable) _____

OPA 3 NSTD

Description/Justification

NA0174 FSCATT/PHI

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)							221	17791				
ECOs								757				
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs								18548				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
SPARES/PROV ITEMS									2191			
TESTING/ENG SPT									1413			
Other (Specify)												
Total Support Costs									3604			
Software/Courseware												
TOTAL COSTS									22152			

P.1 SHOP LIST
ITEM NO.

158 A

3A

EXHIBIT-43, PAGE 3 of 6

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
RECONFIGURABLE SIMULATORS

(KA6000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)			12.6	16.8	10.7	8.3	4.2	3.4

DESCRIPTION: THE FY96/97 RECONFIGURABLE SIMULATOR PROGRAM (RSP) PROVIDES SIMULATORS FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES (CDFs). THE RSP WILL LEVERAGE OFF OVERARCHING ARCHITECTURE FOR RECONFIGURABLE SIMULATORS AND ALLOW FOR FIELDING OF SIMULATORS WITH SUBSTANTIALLY MORE CAPABILITY THAN CURRENT SIMULATORS AT A SUBSTANTIAL REDUCTION IN COST. THESE SIMULATORS WILL PROVIDE A WIDE RANGE OF FUNCTIONALITY OF AVIATION AND GROUND CAPABILITIES. THE SIMULATORS WILL BE FIELDED TO THE AVIATION TEST BED (AVTB) AND OTHER SITES DEEMED NECESSARY BY THE FUNCTIONAL MANAGER FOR DIS. THE SIM UPGRADES (FORT KNOX AND FORT RUCKER) WILL ENHANCE THE CAPABILITIES OF THE SITES CORE SIMULATOR ASSETS. FUNDING FOR THESE ENHANCEMENTS WILL PROVIDE FOR AN ANALYSIS OF USER REQUIREMENTS, THE TECHNICAL APPROACHES AVAILABLE TO SATISFY THOSE REQUIREMENTS, AND THE ACTUAL ENHANCEMENTS. IN ADDITION, THE UPGRADES WILL PROVIDE FOR INCREASED CAPABILITIES TO SIMULATOR VISUAL DISPLAY SYSTEMS, COMPUTER IMAGE GENERATORS, HOST COMPUTER PROCESSING POWER AND NETWORK INTERFACE STANDARDS. THE FY 97 BATTLE LAB RECONFIGURABLE SIMULATOR INITIATIVE (BLRSI) PROCURES RECONFIGURABLE SIMULATORS FOR USE IN THE ARMY'S BATTLE LABORATORIES. THESE SIMULATORS WILL PORTRAY A WIDE RANGE OF FUNCTIONALITY AND SPAN ALL BATTLEFIELD OPERATING SYSTEMS (BOS). THE FY 97 BLRSI PROGRAM WILL CONCENTRATE ON GROUND, AIR, AND BATTLE COMMAND VEHICLES AND SYSTEMS. THE SIMULATORS WILL BE FIELDED TO THE FOLLOWING SITES: DISMOUNTED BATTLE SPACE LAB (FORT BENNING, GA), AVIATION TEST BED (FORT RUCKER, KY), AND BATTLE COMMAND COMMAND (FORT LEAVENWORTH, KS).

JUSTIFICATION: SIMULATORS PROCURED FROM THE RECONFIGURABLE SIMULATOR PROGRAM (RSP) FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES (CDFs) LINK WITH TRADOC BATTLE LABORATORIES, RESEARCH AND DEVELOPMENT CENTERS, INDUSTRY AND ACADEMIA TO CHANGE THE CURRENT PARADIGM OF CONDUCTING BUSINESS IN THE MATERIEL ACQUISITION PROCESS. RECONFIGURABLE SIMULATOR PROGRAM WILL FACILITATE ARMY ACCOMPLISHING THE GOALS AND OBJECTIVES FOR FORCE XXI, LOUISIANA MANEUVERS (LAM), SYNTHETIC THEATER OF WAR (STOW), NUMEROUS ADVANCED TECHNOLOGY DEMONSTRATIONS (ATDs) AND ADVANCED WARFIGHTING EXPERIEMENTS (AVES). PROCUREMENT OF SIMULATOR WILL PROVIDE THE CDFs WITH THE NECESSARY TOOLS TO COMBINE MATERIAL DEVELOPMENT, TRAINING ENVIRONMENT, AND REQUIREMENTS VALIDATION AT THE SAME FACILITIES. THE SIM UPGRADES ARE REQUIRED TO ACCURATELY PORTRAY AVIATION ASSETS IN THE DEVELOPING SYNTHETIC ENVIRONMENT OF DISTRIBUTED INTERACTIVE SIMULATION (DIS). UPGRADES WILL PROVIDE A LEARNING CURVE FOR THE FOLLOW-ON DEPLOYMENT OF BATTLE LAB RECONFIGURABLE SIMULATOR INITIATIVE (BLRSI) OR AVIATION COMBINED ARMS TACTICAL TRAINER (AVCATT) PROTOTYPES. THE BLRSI FOCUSES ON THE EMERGING VIRTUAL SIMULATION DOMAIN, INCLUDING MANNED SIMULATORS OPERATING IN A SYNTHETIC ENVIRONMENT. RECONFIGURABLE SIMULATORS ARE CRUCIAL FOR EXPERIMENTATION IN EVALUATING THE WARFIGHTING IMPACT OF SYSTEMS, PLATFORMS, AND TECHNOLOGIES FOR THE FORCE PROJECTION ARMY. THE KEY IN THE BATTLE LAB PROCESS IS EXPERIMENTATION WITH NEW SYSTEMS AND TECHNOLOGIES, PRIMARILY THROUGH THE MEDIUM OF SIMULATION. BATTLE LABS CURRENTLY LACK THE SIMULATORS TO EXPERIMENT EFFECTIVELY, AND BLRSI PROVIDES THIS CRUCIAL MISSING CAPABILITY. PROCUREMENT OF THE SIMULATORS SHOWN ABOVE WILL PROVIDE THE BATTLE LABS WITH THE NECESSARY TOOLS TO DETERMINE THE WARFIGHTING IMPACT OF A VARIETY OF EMERGING SYSTEMS, TECHNOLOGIES, AND CAPABILITIES.

P-1 SHOPPING LIST

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Page of Pages

EXHIBIT P-60

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

RECONFIGURABLE SIMULATORS

Weapon System Cost Elements	Ident. Code	FY94		CY95		BY1 96		BY2 97		D. DATE Month/Year FEBRUARY 1996
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	
HARDWARE										
A. HELMET MOUNTED DISPLAY SYSTEM	B					70000	4/280			2/2400
B. COMPUTER IMAGE GENERATOR	B					300000	4/1200			10/8100
C. FIBER DISTRIBUTED DATA INTERFACE	B					1000000	1/1000			3/2322
D. RECONFIGURABLE AVIATION SIMULATORS	B					1200000	4/4800			2/1620
E. RECONFIGURABLE GROUND SIMULATORS	B					810000	3/2430			
F. SIMULATOR UPGRADE (FT KNOX)	B					968667	3/2906			
G. RECONFIGURABLE FIRE SUPPORT SIMULATOR	B									
H. RECONFIGURABLE BATTLE COMMAND SIMULATOR	B									
										16787

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5)										A. DATE	
B. APPROPRIATION/BUDGET ACTIVITY										FEBRUARY 1996	
OTHER PROCUREMENT: ARMY 3										(KA6000)	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	C. P-1 ITEM NOMENCLATURE		IF YES, WHEN AVAILABLE	
								RECONFIGURABLE SIMULATORS	SPECS AVAILABLE NOW		SPEC REV REQ'D
A. HELMET MOUNTED DISPLAY SYSTEM FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Dec-95	4	70000	YES	YES	Aug-95	
B. COMPUTER IMAGE GENERATOR FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Dec-95	4	300000	YES	YES	Aug-95	
C. FIBER DISTRIBUTED DATA INTERFACE FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Mar-96	1	1000000	YES	NO		
D. AVIATION SIMULATOR FY96 FY 97	UNKNOWN UNKNOWN	C/CPFF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 May-97	Oct-96 Oct-97	4 2	1200000 1200000	NO NO		Feb-96 Feb-97	
E. GROUND SIMULATOR FY 96 FY 97 FY 97	UNKNOWN UNKNOWN UNKNOWN	C/CPFF OPTION OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 Oct-96 May-97	Oct-96 May-97 Oct-97	3 7 3	810000 810000 810000	NO NO NO		Feb-96 Jul-96 Feb-96	
F. SIM UPGRADE -FT KNOX FY96 FY 97	UNKNOWN UNKNOWN	C/CPFF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 May-97	Oct-96 Oct-97	3 3	968667 774000	NO NO		Feb-96 Feb-97	
G. FIRE SUPPORT SIMULATOR FY 97	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-96	Apr-97	2	810000	NO		Jul-96	
H. BATTLE COMMAND SIMULATOR FY 97	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-96	Apr-97	1	2345000	NO		Jul-96	
D. REMARKS											

P-1 SHOPPING LIST

Previous editions are obsolete

Exhibit P-5A Procurement History & Planning

UNCLASSIFIED

CODE "B" ITEM DESCRIPTION

DATE FEBRUARY 1995

REPORT CONTROL SYMBOL DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
RECONFIGURABLE SIMULATORS

(KA6000)

CURRENT DEVELOPMENT AND TEST STATUS

SCHEDULE DATE		REASON FOR DELAY
CURRENT	LAST REPORTED	
PLAN/ACTUAL JUN 96 DEC 96 MAY 97		

DEV TEST & EVAL (DT&E)
INITIAL OPER TEST & EVAL (IOT&E)
OPER TEST & EVAL (OT&E)
AVAIL DATE OF TECH DATA PKG (TDP)
OR PERFORMANCE SPECIFICATIONS

ESTIMATED DATE OF APPROVAL FOR SERVICE USE DEC 96

EQUIPMENT ITEM(S) TO BE REPLACED SIMNET DEVICES

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED LEVEL II SIMULATION ENVIRONMENT.

DEVELOPMENT CONTRACT INFORMATION

RD&E FUNDING PROFILE (\$ IN MILLIONS)							
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
UNKNOWN				14500	6139	3745	
TOTAL RD&E FUNDING			0	14500	6139	3745	0

REMARKS

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

PHYSICAL SECURITY SYSTEMS (OPA3)

(MA0780)

	FY 94 *	FY 95 *	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	11.1	10.1	6.2	6.2	6.9	9.3	10	10.2

DESCRIPTION: Physical Security Systems protect high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these resources prior to armed conflict or to embarrass the Government during peacetime. Physical Security Systems include the Integrated Commercial Intrusion Detection System (ICIDS), the Joint-Services Interior Intrusion Detection System (J-SIIDS) and the Commercial Intrusion Detection Systems (CIDS). The ICIDS program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional Arms, Ammunition and Explosive Areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. These components are assembled as "systems" to meet the site specific security requirements of installations on a DA Distribution Plan. Air Force developed components which provide security for exterior perimeters of sensitive facilities will be procured and will eventually be integrated into the ICIDS program. The Alarm Monitor Group (AMG), a Personal Computer based upgrade to the J-SIIDS, provides a cost effective system meeting basic security communications, control and display capabilities for small site applications where an ICIDS would be inappropriate. These components are assembled as "systems" to meet the site specific requirements of installations on a DA Distribution Plan. The J-SIIDS is an Army Type Classified Standard Interior intrusion detection system used to secure arms rooms, nuclear/chemical and conventional ammunition magazines, drug storage, automatic data processing centers, communications and financial facilities. When centrally managed ICIDS or J-SIIDS cannot be used, MACOMs use locally purchased CIDS to secure these resources.

JUSTIFICATION: FY96/97 funds procurement of electronic Physical Security Equipment (PSE). These funds address the modernization of integrated PSE for intrusion detection and assessment, access control, and electronic surveillance. Provide regulatory required security measures for chemical storage/demilitarization facilities; nuclear reactors; conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimize risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers/civilian guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorists/criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON). Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for Force Protection missions during mobilization and deployment.

* Transferred from OPA-2 to OPA-3 starting in FY96.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)

WEAPON MODEL/SERIES/POPULAR NAME
PSE

MANUFACTURER NAME
PLANT CITY/STATE LOCATION
See P-5A

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94* UNIT COST	Quantity TOTAL COST	FY 95* UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
ICIDS Hardware	A	**	3 4,857	**	3 4,863	**	3 3,114	**	4 3,077
Engineering Support			933		866		443		440
AMG Hardware	A	21	30		30		30		30
Engineering Support			630	21	630	21	630	21	630
			248		350		248		248
Subtotal			6,668		6,709		4,435		4,395
J-SIIDS Hardware	A	1	504	1	504	1	250	1	250
Engineering Support			270		270		100		100
CIDS Anti-terrorism (Force Protection)		**	2,484	**	584	**	639	**	723
Engineering Support		**	1,200	**	2,082	**	766	**	752
Subtotal			4,458		3,440		1,755		1,825
TOTAL			11,126		10,149		6,190		6,220

* Transferred from OPA-2 to OPA-3 in FY96.

** "Unit Cost" is site dependent; components are assembled according to individual site security requirements.

P-1 SHOPPING LIST

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DATE February 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

APPROPRIATION /BUDGET ACTIVITY
 P-1 ITEM NOMENCLATURE
 PHYSICAL SECURITY SYSTEMS (OPA3)
 Other Procurement: Army 3
 Other Support Equipment

(MA0780)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
ICIDS FY94	Paramax Systems Corp Alexandria, VA	C/FP Option	ATCOM	Jan 94	Jun 94	3	*	Yes	No	
FY95	Paramax Systems Corp	C/FP Option	ATCOM	Jan 95	Feb 95	3	*	Yes	No	
FY96	Paramax Systems Corp	C/FP Option	ATCOM	Jan 96	Mar 96	3	*	Yes	No	
FY97	Paramax Systems Corp	C/FP Option	ATCOM	Jan 97	Feb 97	4	*	Yes	No	
AMG FY94	Federal Prison Ind., Big Springs, TX	SS/Option	ATCOM	Aug 94	Jan 95	30	21,000	Yes	No	
FY95	Federal Prison Ind.,	SS/Option	ATCOM	Feb 95	Jul 95	30	21,000	Yes	No	
FY96	Federal Prison Ind.,	SS/Option	ATCOM	Feb 96	Jul 96	30	21,000	Yes	No	
FY97	Federal Prison Ind.,	SS/Option	ATCOM	Feb 97	Jul 97	30	21,000	Yes	No	
J-SIIDS FY94	** CKC Industries, Inc. Tampa, FL	C/FP	ATCOM	Jan 94	Mar 94	504	1,000	Yes	No	
FY95	TBS	C/FP Option	ATCOM	Jan 95	Mar 95	504	1,000	Yes	No	
FY96	TBS	C/FP Option	ATCOM	Jan 96	Mar 96	250	1,000	Yes	No	
FY97	TBS	C/FP Option	ATCOM	Jan 97	Mar 97	250	1,000	Yes	No	
CIDS	***									

REMARKS
 * "Unit Cost" is site dependent; components are assembled according to individual installation security requirements.
 ** J-SIIDS components are produced by multiple sources under separate requirements contracts. Deliveries are on a demand basis. CKC Industries produces the prime.
 *** CIDS funds locally purchased, nonstandard, IDS hardware. Funds are MIPR'd to installations for competitive contracts, Project orders or Work Requests.

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

PHYSICAL SECURITY SYSTEMS (OPA3)

INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)

(MA0780)

S F A C	E U/M*	ACCEP P R I O R T O	BAL D U E A S O F	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			L A T E R														
				CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99														
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	3																									
1	A	3																									
1	A	3																									
1	A	4	4																								
TOTALS				9	4																						
F A C	MANUFACTURER'S NAME & LOCATION		PRODUCTION RATES			MONTHS TO REACH MAX			PRODUCTION LEAD TIME			REMARKS															
			MIN	1-8-5	MAX	REACH MAX	AFTER D DAY	ADMIN LEAD TIME	MANUFACTURING TIME	TOTAL AFTER	1 OCT	1 OCT	1 OCT	1 OCT													
			**	**	**			PRIOR 1 OCT	AFTER 1 OCT	INITIAL	REORDER																
1	Paramax Systems Corporation, Alexandria, VA																										

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ITEM NO 160

APPROPRIATION / BUDGET ACTIVITY
 Other Procurement, Army, Activity 3 -
 Other Support Equipment

P-1 ITEM NOMENCLATURE
 SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)
 (MA0070)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00/01
	19.2	13.9	10.0	14.0	5.5	5.5	7.9/7.4

DESCRIPTION: System Fielding Support funds provide for First Destination Transportation (FDT), Total Package Fielding (TPF) and New Equipment Training (NET) for all systems and equipment funded within Other Procurement Army, Activity 3, Other Support Equipment. FDT funds provide for the movement of Army equipment, Modification kits, assemblies and components form the manufacturing point to a CONUS depot or other points of first acceptance within the CONUS supply system. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract). TPF is the standard method of fielding new equipment developed under the Army's force modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, Deprocessing, Temporary Duty (TDY), Salaries (AIF), and Army Stock Fund managed equipment.

JUSTIFICATION: Funds will ensure (1) continued uninterrupted shipment of newly procured items to Army users in support of readiness and training, (2) continued and orderly fielding of force modernization systems, and (3) the transfer of knowledge from the materiel developer to the trainer, user, and other support personnel.

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

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BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
BASE LEVEL COMMERCIAL EQUIPMENT

(MB7000)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00/FY01
QUANTITY							
COST(IN MILLIONS)	17.3	8.0					

DESCRIPTION: The Base Level Commercial Equipment (BCE) program funds equipment to support installation operating missions with contracts for the required equipment being awarded by the installation. BCE items are generally commercial, off-the-shelf, non-centrally managed, authorized by Table of Distribution and Allowances (TDA) activities of the Active Army and Reserve components and those Joint Table of Allowances (JTA) activities for which the Army is the executive agent, can be used in a stand-alone mode and not lose its identity on application, and have a unit cost of \$50,000 or more. Examples of these items are: Commercial laundry and Dry Cleaning equipment, Grounds Maintenance equipment, and Dishwashers.

JUSTIFICATION: The BCE program funds virtually all non-standard items with a cost of \$50,000 or more which are not available through the Army Supply System. Twenty-six Major Commands/General Operating Agencies are provided funds from this budget line.

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BUDGET ITEM JUSTIFICATION SHEET

DATE Feb 1995

REPORTS CONTROL SYMBOL
DD-COMP(ARI) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Modification of In-Svc Equip

(MA4500)

QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (IN MILLIONS)	40.9	36.2	21.9	15.3	19.3	24.6	17	18.5

DESCRIPTION: This budget roll line includes both the procurement and installation of modification kits for OPA-3 equipment.

SYSTEM / NOMENCLATURE

FY97

FY96

FY95

FY94

Logistics-Over-The-Shore (LOTS)

Modification Kits

Installation of Modifications

LOTS TOTALS

7.368

6.286

8.130

2.483

3.920

3.231

4.381

1.200

11.288

9.517

12.511

3.683

Distribution Illumination System, Electric (DISE)

Modification Kits

Installation of Modifications

DISE TOTALS

.412

.342

.753

Environmental Compliance (EC)

Modification Kits

Installation of Modifications

EC TOTALS

23.373

8.153

6.976

13.108

15.129

36.481

Combat Service Support Equipment

Modification Kits

Installation of Modifications

COMBAT SERVICE SPT TOTALS

.530

1.345

.315

1.236

.845

2.581

Bridging Equipment Modification Kits

1.595

Smoke Obscurant Modification Kits

2.769

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BUDGET ITEM JUSTIFICATION SHEET

DATE Feb 1995

REPORTS CONTROL SYMBOL
DD-COM(ARI) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

Modification of In-Svc Equip

QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (IN MILLIONS)	40.9	36.2	21.9	15.3	19.3	24.6	17.0	18.5

(MA4500)

DESCRIPTION: This budget roll line includes both the procurement and installation of modification kits for OPA-3 equipment.

SYSTEM / NOMENCLATURE

FY94 FY95 FY96 FY97

M9 Armored Combat Earthmover (M9 ACE)

Modification Kits
Installation of Modifications
M9 ACE TOTALS

4.482 5.779 2.145
1.624 1.265 1.849
6.106 7.044 3.994

MODIFICATION OF IN-SERVICE EQUIPMENT TOTALS
SUB-TOTAL MODIFICATION KITS
SUB-TOTAL INSTALLATION
TOTAL MODIFICATION PROGRAM

26.267 16.179 9.513
14.670 5.732 5.769
40.937 21.911 15.282

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

P-1 ITEM NOMENCLATURE
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)
(MA4500)

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	40.9	30.1	12.1	11.3				

DESCRIPTION: This budget line funds ATCOM's OPA 3 modification of in service equipment programs. It is used to procure hardware, materials, and installation to complete the modifications. The items supported by this budget line include the entire range of ATCOM managed systems including our Logistics-Over-The-Shore (LOTS) watercraft, Combat Service Support equipment such as Laundries, Engineering Support equipment such as Diving Recompression Chambers, Bridging, POL and Water equipment, Rail, and Environmental Control equipment. Modifying in use equipment is done to correct safety deficiencies, increase mission capabilities, extend the useful life, extend supportability, upgrade to existing technology, increase efficiency, and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

JUSTIFICATION: The FY 96/97 modification of in service equipment programs supports primarily modernization of LOTS watercraft. The types of programs involved include equipment upgrades, service life extension, and communication, electronics, and navigational (CEN) equipment upgrades. They support the entire fleet of Army watercraft. Continuing to modify and modernize these vessels precludes the necessity to replace them with new vessels, at considerably greater cost. These funds also support modifications on the Medium Girder Bridge, Laundry Units, Refrigerated Containers, and Recompression Chambers. These modifications will allow this equipment to meet existing mission requirements, increase efficiency, and meet current certification requirements

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

P-1 ITEM NOMENCLATURE

MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)
Program Summary

(MA4500)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
COST (IN MILLIONS)	40.9	30.1	12.1	11.3				

SYSTEM/NOMENCLATURE

FY 97

FY 96

FY 95

FY 94

Logistics-Over-The-Shore (LOTS)

Modification Kits	2.483	8.130	6.286	7.368
Installation of Modifications	1.200	4.381	3.231	3.920
LOTS TOTALS	3.683	12.511	9.517	11.288

Distribution Illumination System, Electric (DISE)

Modification Kits	0.412
Installation of Modifications	0.342
DISE TOTALS	0.753

Environmental Compliance (EC)

Modification Kits	23.373	8.153
Installation of Modifications	13.108	6.976
EC TOTALS	36.481	15.129

Combat Service Support Equipment

Modification Kits	0.530	1.345
Installation of Modifications	0.020	1.236
CSS TOTALS	0.020	2.581

Bridging Equipment

Modification Kits	1.595
Installation of Modifications	1.595
BRIDGING TOTALS	1.595

Modification of In Service Equipment

Modification Kits	26.267	18.408	7.631	7.368
Installation of Modifications	14.670	11.672	4.467	3.920
MOD TOTALS	40.937	30.080	12.098	11.288

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(\$ in millions)

MODIFICATION INSTALLATION SUMMARY

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(ARI) 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)
Installation Summary
(MA4502)

SYSTEM/MODIFICATION	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	COST TO COMPLETE	TOTAL
Landing Craft, Mechanized 8 ton (SLEP)	1.200									1.200
Landing Craft, Mechanized 8 ton (Equipment Upgrade)			0.231	0.403						0.634
Floating Machine Shop (Modernization)		1.436								1.436
Crane Barge, 100 Ton (Modernization)		1.302								1.302
Barge, Deck Cargo (Modernization)		0.288								0.288
Logistics Support Vessel (Modernization)		1.355								1.355
Lighter, Amphibious, Resupply Cargo 60 (SLEP)				0.920						0.920
Tug, 100' (Equipment Upgrade)			3.000	2.000						5.000
Marine CEN Equipment Upgrade (Watercraft)				0.596						0.596
Distribution Illumination Sys, Elec (Circuit Breaker)	0.342									0.342
Landing Craft, Utility 2000 (Halon Removal)										1.020
ROWPU Barge (Halon Removal)		0.168								0.168
Landing Craft Utility 1600 (Halon Removal)		0.240								0.240
Logistic Support Vessel (Halon Removal)		0.210								0.210
Large Tug (Halon Removal)		0.210								0.210
AN/TSC-85 (Air Conditioner/CFC)	0.314	0.297								0.611
AN/TSC-93 (Air Conditioner/CFC)	0.499	0.451								0.950
AN/ASM-189 (Air Conditioner/CFC)	3.531	0.379								3.910
AN/ASM-190 (Air Conditioner/CFC)	1.866	0.085								1.951
AN/ASM-141 (Air Conditioner/CFC)	0.225	0.458								0.683
ESC-146 (Air Conditioner/CFC)	6.113									6.113
ESC-38 (Air Conditioner/CFC)	0.289									0.289
AN/ASM-92 (Air Conditioner/CFC)	0.271									0.271
Landing Craft, Utility 2000 (Refrigeration/CFC)		0.378								0.378
Logistic Support Vessel (Refrigeration/CFC)		0.945								0.945
Landing Craft Utility 1600 (Refrigeration/CFC)		0.360								0.360
Tug, 128' (Refrigeration/CFC)		0.338								0.338
Tug, 100' (Refrigeration/CFC)		0.156								0.156
Tug, 65' (Refrigeration/CFC)		0.391								0.391
Crane, 100 Ton (Refrigeration/CFC)		0.330								0.330
Crane, 60 Ton (Refrigeration/CFC)		0.391								0.391
Floating Machine Shop (Refrigeration/CFC)		0.040								0.040
Refrigeration Equipment (Power Generation)		0.129								0.129
Medium Girder Bridge (Equipment Upgrade)			0.710							0.710
Laundry Units (Laundry Water Reuse)										0.101
Recompression Chamber, Diving (Equipment Upgrade)	0.02	0.315	0.425							0.740
Deployable Medical Systems (Air Conditioner Upgrade)										0.020
TOTAL	14.670	11.672	4.467	3.920						34.728

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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)

Other Support Equipment

Modification Kit Summary

(MA4501)

QUANTITY

COST (IN MILLIONS)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
	26.3	18.4	7.6	7.4				

ITEM	M.C.#	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
Landing Craft, Mechanized 8 ton	1-82-08-3107								
Landing Craft, Mechanized 8 ton	TBD	2.483							
Floating Machine Shop	1-89-08-3123				1.100				
Crane Barge, 100 Ton	1-89-08-3127				2.099				
Barge, Deck Cargo	1-89-08-3128				0.349				
Logistics Support Vessel	1-90-08-3130				4.582				
Lighter, Amphibious, Resupply Cargo 60	TBD					1.440			2.880
Tug, 100'	TBD					4.500			3.000
Marine CEN Equipment Upgrade	TBD								0.882
Distribution Illumination Sys. Elec	1-91-08-3307								
Landing Craft, Utility 2000	1-92-08-3108	0.412			1.158				
ROWPU Barge	1-92-08-3155				0.153				
Logistic Support Vessel	1-92-08-3129				0.144				
Large Tug	1-92-08-3131				0.204				
AN/TSC-85	1-92-08-3145				0.245				
AN/TC-93	1-92-07-1000				0.497				
AN/ASM-189	1-92-07-1001				0.802				
AN/ASM-190	1-92-07-1002				0.702				
AN/ASM-141	1-92-07-1003				0.150				
ESC-146	1-92-07-1004				0.428				
	1-92-07-1017				0.894				
	1-92-07-1018								
	1-92-07-1019				0.676				
	1-93-08-3156				0.840				
	1-93-08-3157				0.282				
	1-93-08-3158				0.260				
	1-93-08-3159				0.120				
	1-93-08-3160				0.306				
	1-93-08-3161				0.270				
	1-93-08-3162				0.306				
	1-93-08-3163				0.035				
	1-93-08-3164				0.111				
	1-94-08-5-82					0.450			
	TBD				1.595				
	TBD				0.530				
	TBD				18.408				
		26.267			7.368				

TOTAL

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BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092
APPROPRIATION /BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)
Installation Summary
(MA4502)

QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
COST (IN MILLIONS)	14.7	11.7	4.5	3.9				
ITEM	M.C.#	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 01
Landing Craft, Mechanized 8 ton	1-82-08-3107							
Landing Craft, Mechanized 8 ton	TBD							
Floating Machine Shop	1-89-08-3123				1.436	0.231	0.403	
Crane Barge, 100 Ton	1-89-08-3127				1.302			
Barge, Deck Cargo	1-89-08-3128				0.288			
Logistics Support Vessel	1-90-08-3130				1.355			
Lighter, Amphibious, Resupply Cargo 60	TBD					0.920		
Tug, 100'	TBD					2.000		
Marine CEN Equipment Upgrade	TBD					0.596		
Distribution Illumination Sys, Elec	1-91-08-3307			0.342				
Landing Craft, Utility 2000	1-92-08-3108							
ROWPU Barge	1-92-08-3155							
Landing Craft Utility 1600	1-92-08-3129							
Logistic Support Vessel	1-92-08-3131							
Large Tug	1-92-08-3145							
AN/TSC-85	1-92-07-1000			0.314				
AN/TSC-93	1-92-07-1001			0.499				
AN/ASM-189	1-92-07-1002			3.531				
AN/ASM-190	1-92-07-1003			1.866				
AN/ASM-141	1-92-07-1004			0.225				
ESC-146	1-92-07-1017			6.113				
ESC-38	1-92-07-1018			0.289				
AN/ASM-92	1-92-07-1019			0.271				
Landing Craft, Utility 2000	1-93-08-3156							
Logistic Support Vessel	1-93-08-3157							
Landing Craft Utility 1600	1-93-08-3158							
Tug, 128'	1-93-08-3159							
Tug, 100'	1-93-08-3160							
Tug, 65'	1-93-08-3161							
Crane, 100 Ton	1-93-08-3162							
Crane, 60 Ton	1-93-08-3163							
Floating Machine Shop	1-93-08-3164							
Refrigeration Equipment	1-94-08-5-82							
Medium Girder Bridge	TBD							
Laundry Units	TBD							
Recompression Chamber, Diving	TBD							
Deployable Medical Systems	1-89-08-3502			0.020				
TOTAL				14.670	11.972	4.467	3.920	

P-1 SHOPPING LIST

UNCLASSIFIED

Page of Pages
EXHIBIT P-40

REPORTS CONTROL SYMBOL
DD-COMPAR) 1092

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: LCM-8 Mod 1 Service Life Extension MCF 1-82-08-3107

MODELS OF SYSTEMS AFFECTED: Landing Craft, Mechanized, 8 ton (LCM-8)

DESCRIPTION/JUSTIFICATION:

Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Diesel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolete. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The first prototype was completed in FY 86 with the second completion in FY 80. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenance schedules.

FINANCIAL PLAN (\$ in millions)	FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		TO COMPLETE		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RD&E																	
PROCUREMENT																	
Kit Quantity	77	11.04															77
Installation Kits		1.01															1.01
Equipment (Nonrecuring)																	
Equipment (Nonrecuring)																	
Draws		0.04															0.04
Training Equipment																	
Support Equipment																	
Interim Contractor Support		16.40															16.40
Installation Total Cost		0.38															
Installation Unit Cost (non-add)		29.10															29.10
Other																	
Total Procurement Cost																	

METHOD OF IMPLEMENTATION: Contractor

ADMINISTRATIVE LEADTIME: 5

PRODUCTION LEADTIME: 5

CONTRACT DATES: FY 95:

FY 96:

FY 97:

DELIVERY DATES: FY 95:

FY 96:

FY 97:

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		IC	Total
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
INPUT	08	3	3	3	2	2	2	2	2	2	2	2	2	2	4	77
OUTPUT	01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	77

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBT P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: LCM-8 Equipment Upgrade

MODELS OF SYSTEMS AFFECTED: Landing Craft, Mechanized, 8 ton (LCM-8), Mod 1

DESCRIPTION/JUSTIFICATION:

This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. The upgrade will include installation of an escape hatch in the head of the craft, provide a new compass, enhancing the operational capabilities, and an improved bilge ballast system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change approved
- IPR/Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

Execution is contingent upon receipt of \$200K of OMA for prototype work. Funds being sought from USAR and DCSOPS (ASMP). \$75K OMA being provided by the Army Reserve.

PLANNED QTR/YR	ACTUAL QTR/YR 10/95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
12	0.35	21	0.61	21	0.61	22	0.63		78
									2.19

PRODUCTION

- Kit Quantity
- Installation Kits
- Installation Kits (Non-recurring)
- Equipment
- Equipment (Non-recurring)
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Interven Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-sold)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

Contractor
Various locations in conjunction with cyclic maintenance schedules.

ADMINISTRATIVE LEADTIME: 4

PRODUCTION LEADTIME: 6

CONTRACT DATES:

FY 95: Jan 96
FY 96: Jan 97

DELIVERY DATES:

FY 95: Jul 96
FY 96: Jul 97

INSTALLATION SCHEDULE:

FY	1	2	FY 95	3	4	1	2	FY 96	3	4	1	2	FY 97	3	4	1	2	FY 98	3	4	IC	Total	
INPUT																							
OUTPUT																							

P-1 SHOPPING LIST

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: FMS Modernization MC/ 1-89-08-3123

MODELS OF SYSTEMS AFFECTED: Floating Machine Shop (FMS)

DESCRIPTION/JUSTIFICATION:

This modification is required to extend the useful life of the Floating Machine Shop by upgrading obsolete and unsupported equipment. Service life will be extended by twenty years. This will allow the FMS to provide an intermediate (IS) maintenance support of the Army's fleet of watercraft. An improved, state-of-the-art 10 ton crane will be installed. This will enable the FMS to provide crucial intermediate maintenance support to the Army's fleet of watercraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

MC Initiated	10/89	PLANNED	10/89	QTY	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
IFR/Production Decision	40/92	O/R/Y/R	30/90	QTY								QTY
Prototype completed	40/93		10/93	QTY								QTY
Requirements Review (Combat Developer - Transportation School)	10/95		40/93	QTY								QTY
Production Contract Award	20/95		10/95	QTY								QTY
First Production Hardware Delivery	10/98		20/95	QTY								QTY
First Kit Applied	20/96		10/95	QTY								QTY
Last Kit Applied	20/96		40/93	QTY								QTY

Requirements for the FMS were reviewed by the Transportation School to determine if the FMS is the best solution to DS/GS Watercraft maintenance. Transportation School decision was to continue to support current modification of the FMS. This decision will also affect the modification efforts on the Cargo Deck Barge.

FINANCIAL PLAN (\$ in millions)

QTY	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	TOTAL
2			1.10													2

RDT&E

PROCUREMENT

KR Quantity	2	1.10														2	1.10
Installation Kits																	
Equipment																	
Equipment (Nonrecurring)																	
Engineering Change Orders																	
Data																	
Training Equipment																	
Support Equipment																	
Interim Contractor Support																	
Installation Total Cost			1.44														1.44
Installation Unit Cost (non-add)			0.72														0.72
Other																	2.54
Total Procurement Cost			2.54														2.54

METHOD OF IMPLEMENTATION: Contractor (Two contractors, one east coast, one west coast)

CONTRACT DATES:

FY 95:	Feb 95	FY 96:		FY 97:	
FY 95:	Nov 95	FY 96:		FY 97:	

DELIVERY DATES:

FY 95:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FY 96:																
FY 97:																
FY 98:																
FY 99:																
FY 00:																
FY 01:																
Total																

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FY 95:																
FY 96:																
FY 97:																
FY 98:																
FY 99:																
FY 00:																
FY 01:																
Total																

INPUT

2

OUTPUT

2

P-1 SHOPPING LIST

UNCLASSIFIED
INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: Crane Barge Modernization MC# 1-89-08-3127

MODELS OF SYSTEMS AFFECTED: Crane Barge, 100 ton

DESCRIPTION/JUSTIFICATION:

This modification is required to improve safety of personnel and eliminate human factor engineering shortcomings, including provisions for adequate accommodations for a full crew, installation of a general alarm system, replacement of obsolete equipment, and improved operational effectiveness. Completion of this modification will also result in the standardization of hull designs which will improve the supply support of these assets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change Initiated
- IPR/Production Decision
- Prototype Completed
- TDP Accepted
- Production Contract Award
- Fleet Production Hardware Delivered
- First Kit Applied
- Last Kit Applied

ACTUAL QTR/YR 20/89 40/82 20/85 30/85 40/85 10/86 20/86 40/87
Program was delayed due to lack of OMA funding to support engineering and prototype development and testing. OMA funding has now been provided by TUSA.

	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL

RD/TAE

PROCUREMENT

Kit Quantity			9												9	2.10
Installation Kits																
Installation Kits (Nonrecurring)																
Equipment																
Equipment (Nonrecurring)																
Engineering Change Orders																
Date																
Training Equipment																
Support Equipment																
Interim Contractor Support																
Installation Total Cost																1.30
Installation Unit Cost (non-add)																0.14
Other																3.40
Total Procurement Cost																

METHOD OF IMPLEMENTATION: Contractor

CONTRACT DATES: FY 95: Aug 95 FY 96: FY 97:

DELIVERY DATES: FY 95: Dec 95 FY 96: FY 97:

INSTALLATION SCHEDULE:

	FY	1	2	FY 95	3	4	1	2	3	4	1	2	3	4	FY 98	1	2	3	4	TC	Total		
INPUT																							
OUTPUT																							

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

MODIFICATION TITLE:
Cargo Barge Modernization MCF 1-88-08-3128

MODELS OF SYSTEMS AFFECTED:
Barge, Cargo Deck

DESCRIPTION/JUSTIFICATION:

This modification is required to upgrade the barge configuration to support the Intermediate (IS) maintenance mission of the Floating Machine Shop (FMS). It will provide new storage racks & securing devices, a monorail, and replace obsolete doors and hatches with watertight doors and hatches in compliance with SOLAS, U. S. Coast Guard and other regulatory requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Material Change Initiated
IPR/Production Decision
Requirements Review (Combat Developer - Transportation School)
Prototype Completed
TDP Accepted
Production Contract Award (Federal Prison Industries)
First Production Hardware Delivered
First Kit Applied
Last Kit Applied

PLANNED QTR/YR
30/89
40/94
10/95
20/95
20/95
20/95
30/95
40/95
10/99

ACTUAL QTR/YR
20/90
40/94
10/95

Requirements for this barge are dependent on requirements for the FMS. The Transportation School has reviewed these requirements to determine if the FMS is the best solution to DS/GS Watercraft maintenance. Transportation School decision was to continue to support current modification of the FMS and the Cargo Barge.

FINANCIAL PLAN (\$ in millions)	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL
---------------------------------	----	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------------	-------

RD/BE

PROCUREMENT																		2	0.35
Kit Quantity																			
Installation Kits																			
Installation Kits (Nonsecuring)																			
Equipment																			
Equipment (Nonsecuring)																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Interim Contractor Support																			
Installation Total Cost			0.29																0.29
Installation Unit Cost (non-odd)			0.14																0.64
Other																			
Total Procurement Cost																			

METHOD OF IMPLEMENTATION:	Contract	ADMINISTRATIVE LEADTIME:	0	PRODUCTION LEADTIME:	3
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CONTRACT DATES:	FY 95:	Mar 95	FY 96:	FY 97:
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DELIVERY DATES:	FY 95:	Jun 95	FY 96:	FY 97:
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INSTALLATION SCHEDULE:	FY	1	2	FY 95	3	4	1	2	FY 97	3	4	1	2	FY 99	3	4	IC	Total
------------------------	----	---	---	-------	---	---	---	---	-------	---	---	---	---	-------	---	---	----	-------

INPUT																		2
OUTPUT																		2

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION EXHIBIT P-3a

of Pages

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Large Tug Equipment Upgrade

MODELS OF SYSTEMS AFFECTED: 100' Tug

DESCRIPTION/JUSTIFICATION:

This upgrade will significantly improve the mission capability of the vessel. It will improve the main engine power plant, upgrade on-board environmental capabilities, improve crew quarters and open mess areas. The operations center will be improved to enhance maneuverability. This modification includes update of communications, electronics, and navigational equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change Approved
- Prototype Test Completed
- Production Contract Award
- First Production Hardware Delivered
- First Kit Applied
- Last Kit Applied

FINANCIAL PLAN (\$ in millions)

	PLANNED QTR/YR		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL		
	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty	Qtr	Qty			
ACTUAL QTR/YR 4Q/94																					
Kit Quantity			3	4.50			2	3.00			2	3.00								7	10.50
Installation Kits (Nonrecurring) Equipment																					
Engineering Change Orders																					
Training Equipment																					
Support Equipment																					
Install Contractor Support																					
Installation Total Cost				3.00				2.00													7.00
Installation Unit Cost (non-add)				1.00				1.00													3.00
Other																					
Total Procurement Cost				7.50				5.00													17.50

METHOD OF IMPLEMENTATION: Contractor

ADMINISTRATIVE LEADTIME: 2

PRODUCTION LEADTIME: 5

CONTRACT DATES: FY 95: Dec 96

DELIVERY DATES: FY 95: Jun 96

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Total	
INPUT																							
OUTPUT																							

P-1 SHOPPING LIST

REPORTS CONTROL SYMBOL: DD-COMPIAR 1092
MODIFICATION TITLE: Maine Communication, Electronic, and Navigation Equipment Upgrade
MODELS OF SYSTEMS AFFECTED: Landing Craft, Utility (LCU) 2000, Logistic Support Vessel (LSV), 128' Tug Hi Speed Patrol Boat

DESCRIPTION/JUSTIFICATION:
 This upgrade will allow this vessels to continue to meet federal maritime and safety standards. It will upgrade communications, electronics, and navigational equipment maintaining capability with other services and vessels in the commercial shipping industry.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
 Material Change Approved
 PFI/Production Decision
 Production Contract Award
 First Production Hardware Delivered
 First Kit Applied
 Last Kit Applied

FINANCIAL PLAN (\$ in millions)

PLANNED QTR/YR	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
2Q/96								
3Q/96								
4Q/96								
1Q/97								
2Q/97								
3Q/97								
4Q/97								
1Q/98								
2Q/98								
3Q/98								
4Q/98								
1Q/99								
2Q/99								
3Q/99								
4Q/99								
1Q/00								
2Q/00								
3Q/00								
4Q/00								
1Q/01								
2Q/01								
3Q/01								
4Q/01								
TOTAL								

ACTUAL QTR/YR

QTR/YR	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
2Q/96								
3Q/96								
4Q/96								
1Q/97								
2Q/97								
3Q/97								
4Q/97								
1Q/98								
2Q/98								
3Q/98								
4Q/98								
1Q/99								
2Q/99								
3Q/99								
4Q/99								
1Q/00								
2Q/00								
3Q/00								
4Q/00								
1Q/01								
2Q/01								
3Q/01								
4Q/01								
TOTAL								

PRODUCTION LEADTIME: 4

ADMINISTRATIVE LEADTIME: 2

CONTRACT DATES: FY 95: Dec 97
 FY 96: May 94

DELIVERY DATES: FY 95: Dec 97
 FY 96: May 94

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	IC	Total
INPUT														
OUTPUT														

METHOD OF IMPLEMENTATION: Contractor on-site at vessel locations.

PRODUCTION LEADTIME: 4

ADMINISTRATIVE LEADTIME: 2

CONTRACT DATES: FY 95: Dec 97
 FY 96: May 94

DELIVERY DATES: FY 95: Dec 97
 FY 96: May 94

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	IC	Total
INPUT														
OUTPUT														

MODIFICATION TITLE:
DISE Circuit Breaker Upgrade MCF 1-91-08 3307

MODELS OF SYSTEMS AFFECTED:
Distribution Illumination System Electric (DISE)

DESCRIPTION/JUSTIFICATION:
This program changes the circuit breaker type from thermal to hydraulic. Hardware fabrication and application are to be done concurrently by Federal Prison Industries.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR/Production Decision
- Production Contract Award
- 1st Production Hardware Delivery
- 1st Modification Kit Applied
- Left Modification Kit Applied

FINANCIAL PLAN (\$ in millions)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RD&E																	
PROCUREMENT	1348	0.38															1348 0.38

RD&E

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonrecurring)
- Equipment
- Equipment (Nonrecurring)
- Engineering Change Orders
- Draws
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-odd)
- Other

* Installation unit cost is \$340 per unit.

METHOD OF IMPLEMENTATION:
Contractor - Federal Prison Industries (FPI)

CONTRACT DATES:
FY 95:

DELIVERY DATES:
FY 95:

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total	
INPUT																		1348
OUTPUT																		1348

P-1 SHOPPING LIST

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

MODIFICATION TITLE:
HALON / CFC MC# 1-92-08-3108
LANDING CRAFT, UTILITY 2000 (LCU 2000)

DESCRIPTION/JUSTIFICATION:
FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED ACTUAL
QTR/YR QTR/YR

- 20/95
- 20/95
- 30/95
- 40/95
- 20/97

FINANCIAL PLAN (\$ in millions)	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL	
																			\$
RD&E																			
PROCUREMENT																			
Kit Quantity			34														34	1.16	
Installation Kits																			
Installation Kits (Nonrecuring)																			
Equipment																			
Equipment (Nonrecuring)																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Installation Contractor Support																			
Installation Total Cost																		1.02	
Installation Unit Cost (non-add)																		0.03	
Other																		2.18	
Total Procurement Cost																			

RD&E

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonrecuring)
- Equipment
- Equipment (Nonrecuring)
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Installation Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR

FY 95: Mar 95

FY 96:

FY 97:

ADMINISTRATIVE LEADTIME

6

PRODUCTION LEADTIME

4

CONTRACT DATES:

FY 95: Mar 95

FY 96:

FY 97:

DELIVERY DATES:

FY 95: Jun 95

FY 96:

FY 97:

INSTALLATION SCHEDULE:

FY	1	2	FY 95	3	4	1	2	FY 96	3	4	1	2	FY 97	3	4	1	2	FY 98	3	4	IC	Total	
INPUT																							
OUTPUT																							

INPUT

OUTPUT

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3c

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD COMP (AR) 1092

MODIFICATION TITLE:
HALON / CFC MC# 1-92-08-3155

MODELS OF SYSTEMS AFFECTED:
ROWPU BARGE

DESCR/INTOM/JUSTIFICATION:
FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1996. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (in millions)	PLANNED QTR/CYR		ACTUAL QTR/CYR		FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
	Qtr	Cy	Qtr	Cy								
3	0.15											3
0.17												0.17
0.08												0.08
0.32												0.32

NOTE

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Miscellaneous)
- Equipment
- Equipment (Miscellaneous)
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Initial Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME
	1	2	2	2	2	2	2	6	6

CONTRACT DATES:

FY 95: Mar 95
FY 96: Aug 95

DELIVERY DATES:

FY 95: Mar 95
FY 96: Aug 95

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00	FY 01	TOTAL
	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2			
INPUT	1	2	2	2	2	2	2	2	2	2	2	2	3
OUTPUT					1	2							3

P-1 SHOPPING LIST

ITEM NO 165

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UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

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UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

MODIFICATION TITLE:
HALON / CFC MC/ 1-92-08-3129
LANDING CRAFT, UTILITY 1000 (LCU 1800)

DESCRIPTION/JUSTIFICATION:
FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT.
A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED QTR/YR		ACTUAL QTR/YR	
IPR Production Decision	20/95			
Production Contract Award	20/95			
First Production Hardware Delivery	30/95			
First Modification Kit Applied	40/95			
Last Modification Kit Applied	40/96			

	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	Qty	TOTAL	Qty	
FINANCIAL PLAN (\$ in millions)																					

RD/TA/E

PROCUREMENT

Kit Quantity	13	0.14
Insulation Kits (Nonrecuring) Equipment		
Equipment (Nonrecuring) Engineering Change Orders		
Training Equipment		
Support Equipment		
Interim Contractor Support		
Installation Total Cost		0.24
Insulation Unit Cost (non-add)		0.02
Other		0.38
Total Procurement Cost		

METHOD OF IMPLEMENTATION:

CONTRACTOR	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME
	6	4

CONTRACT DATES:

FY 95:	Mar 95	FY 96:	
--------	--------	--------	--

DELIVERY DATES:

FY 95:	Jun 95	FY 96:	
--------	--------	--------	--

INSTALLATION SCHEDULE:

	FY	FY 95		FY 96		FY 97		FY 98		IC	Total
		1	2	1	2	1	2	1	2		
INPUT											13
OUTPUT											13

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION EXHIBIT P-3a

INDIVIDUAL MODIFICATION

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

MODIFICATION TITLE:
HALON / CFC MCF 1-92-08-3131
LOGISTICS SUPPORT VEHICLE (LSV)

DESCRIPTION/JUSTIFICATION:
FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED ACTUAL
QTR/YR QTR/YR

- 20/95
- 20/95
- 30/95
- 40/95
- 40/96

FINANCIAL PLAN (in millions)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RD&E																		
PROCUREMENT																		
Kit Quantity		6		0.20														0.21
Installation Kits (Nonrecurring)																		0.04
Equipment																		0.41
Engineering Change Orders																		
Draws																		
Training Equipment																		
Support Equipment																		
Interim Contractor Support																		
Installation Total Cost																		
Installation Unit Cost (non-add)																		
Other																		
Total Procurement Cost																		

METHOD OF IMPLEMENTATION:	CONTRACTOR		ADMINISTRATIVE LEADTIME		PRODUCTION LEADTIME													
	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00												
CONTRACT DATES:	Mar 95	Mar 96																
DELIVERY DATES:	Jun 95	Jun 96																
INSTALLATION SCHEDULE:																		
INPUT	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	IC	Total
OUTPUT																		6

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMPARI 1092

MODIFICATION TITLE: HALON / CFC MC# 1-92-08-3145
MODELS OF SYSTEMS AFFECTED: LARGE TUG

DESCRIPTION/JUSTIFICATION: FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

IPR Production Decision
Production Contract Award
First Production Hardware Delivery
First Modification Kit Applied
Last Modification Kit Applied

PLANNED
QTR/YR

20/95
20/95
40/95
10/96
10/87

ACTUAL
QTR/YR

FINANCIAL PLAN (\$ in millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
	7							7	0.25

ROUTE

PROCUREMENT

Kit Quantity
Installation Kits
Installation Kits (Nonrecuring)
Equipment
Equipment (Nonrecuring)
Engineering Change Orders
Data
Training Equipment
Support Equipment
Insertion Contractor Support
Installation Total Cost
Installation Unit Cost (non-add)
Other
Total Procurement Cost

7 0.25

0.21
0.03
0.40

METHOD OF IMPLEMENTATION:

CONTRACTOR

6

CONTRACT DATES:

FY 95: Mar 95
FY 96: FY 96

6

DELIVERY DATES:

FY 95: Aug 95
FY 96: FY 96

6

INSTALLATION SCHEDULE:

	FY 95	FY 96	FY 97	FY 98	FY 99	IC	Total
INPUT	1	2	3	4	1	2	3
OUTPUT		1	2	2	2	2	7
			1	2	2	2	7

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

MODIFICATION TITLE: AIR CONDITIONER / CFC MCF 1-92-07-1000
 MODELS OF SYSTEMS AFFECTED: ANITSC-95 (AIR CONDITIONER - SSN M773 (2 PER SYSTEM))

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete THE STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THE SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED		ACTUAL	
	QTY	QTR/YR	QTY	QTR/YR
IPR Production Decision		10/94		
Production Contract Award		20/94		
1st Production Hardware Delivery		30/94		
1st Mod Kit Applied		30/94		
Last Mod Kit Applied		30/95		

	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	QTY	TOTAL	QTY

RDTE

PROCUREMENT

Kit Quantity	34	0.55	33	0.50																67	1.05	
Installation Kits																						
Installation Kits (Nonrecurring)																						
Equipment																						
Equipment (Nonrecurring)																						
Engineering Change Orders																						
Draws																						
Training Equipment																						
Support Equipment																						
Insertion Contractor Support																						
Installation Total Cost		0.30		0.30																		0.80
Installation Unit Cost (non-add)		0.01		0.01																		1.65
Other		0.85		0.80																		
Total Procurement Cost																						

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

CONTRACT DATES:

FY 95 Nov 94 FY 96 FY 97

DELIVERY DATES:

FY 95 Nov 94 FY 96 FY 97

INSTALLATION SCHEDULE:

	FY	FY 95				FY 96				FY 97				FY 98				Total			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		IC		
INPUT	34	16	10	7																	67
OUTPUT	34	16	10	7																	67

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMPAR 1092

MODIFICATION TITLE: AIR CONDITIONER / CFC MC # 1-92-07-1001

MODELS OF SYSTEMS AFFECTED: AN/TSC-93 (AIR CONDITIONER - M773)

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- 1st Production Hardware Delivery
- 1st Mod Kit Applied
- Last Mod Kit Applied

PLANNED	ACTUAL
QTR/YR	QTR/YR
	10/94
	20/94
	30/94
	40/94
40/95	

FINANCIAL PLAN (\$ in millions)	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL
Kit Quantity																
Installation Kits	54	0.89	53	0.80												1.69
Installation Kits (Nonsecuring)																
Equipment																
Equipment (Nonsecuring)																
Engineering Change Orders																
Data																
Training Equipment																
Support Equipment																
Interim Contractor Support																
Installation Total Cost		0.50		0.45												0.95
Installation Unit Cost (non-add)		0.01		0.01												2.04
Other																
Total Procurement Cost		1.39		1.25												

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

ADMINISTRATIVE LEADTIME: 6

PRODUCTION LEADTIME: 3

CONTRACT DATES: FY 95 Nov 94 FY 96

DELIVERY DATES: FY 95 Nov 94 FY 96

INSTALLATION SCHEDULE:	FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL	
																												Qty
INPUT	54	13	13	13	14																							107
OUTPUT	54	13	13	13	14																							107

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION EXHIBIT P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AIR CONDITIONER / CFC MC # 1-92-07-1002
MODELS OF SYSTEMS AFFECTED: ANASM-189 (AIR CONDITIONER - SSN M918)

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1999, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED QTR/YR	ACTUAL QTR/YR	FINANCIAL PLAN (\$ in millions)												
			FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL				
IPR Production Decision															
Production Contract Award															
1st Production Hardware Delivery															
1st Mod Kit Applied															
Last Mod Kit Applied	4Q/95														

ROTS&	QTY	FY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
																		FY 95	FY 96
538	9.03	33	0.70															571	9.73

PROCUREMENT

Item	QTY	Unit Cost	Total Procurement Cost
Kit Quantity			
Insulation Kits			
Insulation Kits (Nonrecurring)			
Equipment			
Equipment (Nonrecurring)			
Engineering Change Orders			
Data			
Training Equipment			
Support Equipment			
Interim Contractor Support			
Insulation Total Cost			
Insulation Unit Cost (non-add)			
Other (Asbestos removal)			
Total Procurement Cost			13.96

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

CONTRACT DATES: FY 95 Nov 94 Nov 94

DELIVERY DATES: FY 95 Nov 94 Nov 94

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		TC	Total
	1	2	1	2	1	2	1	2	1	2		
538	25	8										571
538	25	8										571

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

MODIFICATION TITLE: AIR CONDITIONER / CFC MC # 1-92-07-1004
MODELS OF SYSTEMS AFFECTED: AN/TSM-141 (AIR CONDITIONER - SSN M91B)

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- 1st Production Hardware Delivery
- 1st Mod Kit Applied
- Last Mod Kit Applied

PLANNED QTR/YR	ACTUAL QTR/YR
30/85	10/84
	20/84
	40/84
	10/85

FINANCIAL PLAN (\$ In millions)	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	Qty	TOTAL	Qty	0.43	
																				Qty
RD&E																				
PROCUREMENT		25																		0.43
Kit Quantity																				
Installation Kits																				
Installation Kits (Nonrecurring)																				
Equipment																				
Equipment (Nonrecurring)																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Intime Contractor Support																				
Installation Total Cost																				0.23
Installation Unit Cost (non-odd)																				0.01
Other																				0.06
Total Procurement Cost																				0.06

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

CONTRACT DATES: FY 95

DELIVERY DATES: FY 95

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	IC	Total	
																			25
INPUT																			25
OUTPUT																			25

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(ARI) 1092

MODIFICATION TITLE: AIR CONDITIONER / CFC MC # 1-92-07-1017
 MODELS OF SYSTEMS AFFECTED: ANVASM - 140 (AIR CONDITIONER - M773)

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED	ACTUAL
	O/T/R/YR	O/T/R/YR
IPR Production Decision		10/94
Production Contract Award		10/94
1st Production Hardware Delivery		30/94
1st Mod Kit Applied		30/94
Last Mod Kit Applied	4Q/95	

FINANCIAL PLAN (\$ in millions)	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL	

RDT&E

PROCUREMENT

Kit Quantity	677	10.93	50	0.89														727	11.82
Installation Kits																			
Equipment																			
Equipment (Nonrecurring)																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Interim Contractor Support																			
Installation Total Cost				0.40															0.57
Installation Unit Cost (non-add)				0.01															
Other				17.04															18.39
Total Procurement Cost																			

METHOD OF IMPLEMENTATION:

DEPOT FIELD TEAM																				
ADMINISTRATIVE LEADTIME:																				
PRODUCTION LEADTIME:																				

CONTRACT DATES:

FY 95																				
FY 96																				
FY 97																				

DELIVERY DATES:

FY 95																				
FY 96																				
FY 97																				

INSTALLATION SCHEDULE:

	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL
INPUT	677	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10		727
OUTPUT	677	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10		727

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a	PAGE	OF	PAGES
		54		

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AIR CONDITIONER / CFC MC # 1-92-07-101B

MODELS OF SYSTEMS AFFECTED: ESC - 38 (AIR CONDITIONER - M773 (2 PER SYSTEM))

DESCRIPTION/JUSTIFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 1990 ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM IS CURRENTLY DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- 1st Production Hardware Delivery
- 1st Mod Kit Applied
- Last Mod Kit Applied

PLANNED	ACTUAL
O/TI/YR	O/TI/YR
	10/84
	10/84
	30/84
	30/84

30/95

FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	Qty	TOTAL	Qty	TOTAL	Qty
	32																			32	0.55
																					0.29
																					0.84

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

ADMINISTRATIVE LEADTIME: 1

PRODUCTION LEADTIME: 7

CONTRACT DATES: FY 95

FY 96

FY 97

DELIVERY DATES: FY 95

FY 96

FY 97

INSTALLATION SCHEDULE:

FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	Qty	TOTAL	Qty	TOTAL	Qty	
	32																					
	8	12	6	0																		

INPUT

OUTPUT

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

MODIFICATION TITLE:
AIR CONDITIONER / CFC MC # 1-92-07-1019

MODELS OF SYSTEMS AFFECTED:
ANASM-82 (AIR CONDITIONER - M773 12 PER SYSTEM)

DESCRIPTION/JUSTIFICATION:
THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM IS CURRENTLY DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONER, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- 1st Production Hardware Delivery
- 1st Mod Kit Applied
- Least Mod Kit Applied

PLANNED QTR/YR	ACTUAL QTR/YR
30/85	10/84
	30/84
	30/84

PROG	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL	
																			Cost
		30	0.52	45	0.68													75	1.20
			0.27		0.38														0.65
			0.01		0.01														1.85
			0.79		1.00														

METHOD OF IMPLEMENTATION: DEPOT FIELD TEAM

ADMINISTRATIVE LEADTIME: 7

PRODUCTION LEADTIME: 3

CONTRACT DATES:

FY 95 Nov 84 FY 96

FY 97

DELIVERY DATES:

FY 95 Nov 84 FY 96

FY 97

INSTALLATION SCHEDULE:

FY	1	2	FY 95	3	4	1	2	FY 96	3	4	1	2	FY 97	3	4	1	2	FY 98	3	4	Total	
INPUT	30	23	12	10																		75
OUTPUT	30	23	12	10																		75

P-1 SHOPPING LIST

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UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: REFRIGERATION / CFC MC # 1-93-08-3156

MODELS OF SYSTEMS AFFECTED: LANDING CRAFT, UTILITY 2000 (LCU 2000)

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPRI Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (\$ in millions)	FY	QTY	FY 95	QTY	FY 96	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	QTY	TOTAL	QTY	
																									PLANNED QTY/YR

RDT&E

PROCUREMENT

Kit Quantity			35																							
Installation Kits																										
Equipment																										
Engineering Change Orders																										
Drawings																										
Training Equipment																										
Support Equipment																										
Interim Contractor Support																										
Installation Total Cost																										
Installation Unit Cost (non-add)																										
Other																										
Total Procurement Cost																										

METHOD OF IMPLEMENTATION:

CONTRACT DATES:	FY 95:	QTY	FY 96:	QTY	FY 97:	QTY	FY 98:	QTY	FY 99:	QTY	FY 00:	QTY	FY 01:	QTY	TO COMPLETE	QTY	TOTAL	QTY	

DELIVERY DATES:

INSTALLATION SCHEDULE:	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TOTAL	QTY	

INPUT

OUTPUT

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: REFRIGERATION / CFC MC # 1-93-08-3157
 MODELS OF SYSTEMS AFFECTED: LOGISTICS SUPPORT VESSEL (LSV)

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS 1 OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- Fleet Production Hardware Delivery
- Fleet Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (in millions)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL
	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	

ROUTE

PROCUREMENT

Kit Quantity	6	0.28															6	0.28
Installation Kits																		
Installation Kits (Nonsecuring)																		
Equipment																		
Equipment (Nonsecuring)																		
Engineering Change Orders																		
Draws																		
Training Equipment																		
Support Equipment																		
In-House Contractor Support																		
Installation Total Cost																		
Installation Unit Cost (non-add)																		
Other																		
Total Procurement Cost																		

METHOD OF IMPLEMENTATION:

CONTRACTOR	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME
	6	6

CONTRACT DATES:

FY 95:	Mar 95	FY 96:	
FY 97:		FY 97:	

DELIVERY DATES:

FY 95:	Aug 95	FY 96:	
FY 97:		FY 97:	

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		TOTAL
	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY		
INPUT	1	2	3	4	1	2	3	4	1	2	6
OUTPUT					1	2	2	2	4	2	6

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a
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INDIVIDUAL MODIFICATION

DATE February 1996

MODIFICATION TITLE: REFRESHMENT / C/C MC # 1 9J (01 3158)
 MODELS OF SYSTEMS AFFECTED: LANDING CRAFT, UTILITY 1800 (ICU 1800)

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (in millions)

FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	FY	Qty	TOTAL	
																				Planned

RDTEE

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonrecurring)
- Equipment
- Equipment (Nonrecurring)
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

METHOD OF IMPLEMENTATION:

CONTRACTOR

CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:

INPUT

OUTPUT

CONTRACT DATES:	FY 95:	Mar 95	FY 96:	FY 97:	ADMINISTRATIVE LEADTIME	6	PRODUCTION LEADTIME	6
DELIVERY DATES:	FY 95:	Aug 95	FY 96:	FY 97:				
INSTALLATION SCHEDULE:	FY	1 2	FY 95	3 4	1 2	3 4	1 2	3 4
INPUT								
OUTPUT								

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIARI 1092

MODIFICATION TITLE: REFRIGERATION / CFC MC # 1:93-08:3159

MODELS OF SYSTEMS AFFECTED: TUG, 128'

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED
QTR/YR

20/95
20/95
30/95
40/95
10/97

FINANCIAL PLAN (\$ in millions)

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
	6	0.12														6	0.12

ROUTE

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonrecurring)
- Equipment
- Equipment (Nonrecurring)
- Engineering Change Orders
- Draws
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR ADMINISTRATIVE LEADTIME 6 PRODUCTION LEADTIME 6

CONTRACT DATES:

FY 95: Mar 95 FY 96: FY 97:

DELIVERY DATES:

FY 95: Aug 95 FY 96: FY 97:

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		Total	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INPUT			3	4	1	2	3	4	1	2	3	4	1	2	3	4
OUTPUT				1	1	1	1	2								6
				1	1	1	1	1	1	2						6

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

REPORTS CONTROL SYMBOL
DD-COMPARI 1092

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: REFRIGERATION / CFC MC # 1-93-08-3160

MODELS OF SYSTEMS AFFECTED: TUG, 100'

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED ACTUAL
QTR/YR QTR/YR

	FY	Qty	FY 95	Qty	FY 96	Qty	FY 97	Qty	FY 98	Qty	FY 99	Qty	FY 00	Qty	FY 01	Qty	TO COMPLETE	TOTAL
17			17														17	0.31
0.39																		0.39
0.02																		0.70
0.70																		0.70

METHOD OF IMPLEMENTATION:

CONTRACTOR: ADMINISTRATIVE LEADTIME 2 PRODUCTION LEADTIME 5

CONTRACT DATES: FY 95: Nov 94 FY 96: FY 97:

DELIVERY DATES: FY 95: Mar 95 FY 96: FY 97:

INSTALLATION SCHEDULE: FY 95: 1 2 3 4 1 1 2 3 4 1 2 3 4 4

INPUT: 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

OUTPUT: 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a	Page of Pages
UNCLASSIFIED	UNCLASSIFIED	Page of Pages

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

REPORTS CONTROL SYMBOL
DD-COMPIAR) 1092

MODIFICATION TITLE: REFRIGERATION / CFC MC # 1-93-08-3161

MODELS OF SYSTEMS AFFECTED: TUG, 05'

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED		ACTUAL	
	QTY	QTY/RYR	QTY	QTY/RYR
IPR Production Decision	20/95			
First Production Contract Award	30/95			
First Production Hardware Delivery	40/95			
Last Modification Kit Applied	10/97			

FINANCIAL PLAN (\$ in millions)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL	
	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY		
Kit Quantity	15	0.27															15	0.27
Installation Kits (Nonrecuring)																		
Equipment																		
Engineering Changes Orders																		
Design																		
Training Equipment																		
Support Equipment																		
Interim Contractor Support																		
Installation Total Cost		0.33																0.33
Installation Unit Cost (non-add)		0.02																0.02
Other																		
Total Procurement Cost		0.60																0.60

RDT&E

PROCUREMENT

	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL	
	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY		
Kit Quantity	15	0.27															15	0.27
Installation Kits (Nonrecuring)																		
Equipment																		
Engineering Changes Orders																		
Design																		
Training Equipment																		
Support Equipment																		
Interim Contractor Support																		
Installation Total Cost		0.33																0.33
Installation Unit Cost (non-add)		0.02																0.02
Other																		
Total Procurement Cost		0.60																0.60

METHOD OF IMPLEMENTATION:

CONTRACTOR	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME
	6	6

CONTRACT DATES:

FY	QTY	QTY
FY 95: Mar 95		
FY 96:		
FY 97:		

DELIVERY DATES:

FY	QTY	QTY
FY 95: Aug 95		
FY 96:		
FY 97:		

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TOTAL
	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY		
INPUT	1	2	2	2	2	2	2	2	2	2	2	2	2	15	
OUTPUT														15	

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a

INDIVIDUAL MODIFICATION

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

DATE February 1995

MODIFICATION TITLE:
REFRIGERATION / CFC MC # 1-93-08-3184

MODELS OF SYSTEMS AFFECTED:
FLOATING MACHINE SHOP

DESCRIPTION/JUSTIFICATION:
REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED
QTR/YR

- 20/95
- 40/95
- 10/96
- 40/96

ACTUAL
QTR/YR

- 20/95
- 40/95
- 10/96
- 40/96

FINANCIAL PLAN (\$ in millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
RD&E									
PROCUREMENT									
IR Quantity	3								3
Installation Kits									0.11
Installation Kits (Nonrecuring)									
Equipment									
Equipment (Nonrecuring)									
Engineering Change Orders									
Data									
Training Equipment									
Support Equipment									
Interim Contractor Support									
Installation Total Cost									0.13
Installation Unit Cost (non-add)									0.24
Other									
Total Procurement Cost									

METHOD OF IMPLEMENTATION:

- CONTRACTOR
- FY 95: Mar 95
- FY 96:
- FY 97:
- FY 98:
- FY 99:
- FY 00:
- FY 01:
- ADMINISTRATIVE LEADTIME
- PRODUCTION LEADTIME

CONTRACT DATES:

FY 95: Mar 95

FY 96:

FY 97:

FY 98:

FY 99:

FY 00:

FY 01:

ADMINISTRATIVE LEADTIME

PRODUCTION LEADTIME

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

MODIFICATION TITLE:

Medium Girder Bridge Upgrade
Reinforcement Set; Medium Girder Bridge (M2000)

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

The Reinforcement Set has under gone a configuration change to enhance the operational and mission capabilities of the Medium Girder Bridge System. These modifications added additional components to the set. This program will procure these components and deliver them to fielded units to upgrade the existing Reinforcement Sets to the new set configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change Approved
- Production Contract Awarded
- Kit Delivery

	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL	
																			QTY
ROUTINE																			
PROCURMENT																			
Kit Quantity			16	1.59															
Installation Kits																			
Installation Kits (Nonrecurring)																			
Equipment																			
Equipment (Nonrecurring)																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Interim Contractor Support																			
Installation Total Cost																			
Installation Unit Cost (non-odd)																			
Other																			
Total Procurement Cost																			1.59

METHOD OF IMPLEMENTATION:
Procure and field to the MGB users additional components.
As this is a set upgrade, installation of components is not required.

ADMINISTRATIVE LEADTIME: 0

PRODUCTION LEADTIME: 3

CONTRACT DATES:

FY 95: Mar 95
FY 96:

DELIVERY DATES:

FY 95: Jun 95
FY 97:

INSTALLATION SCHEDULE:

FY	1	2	FY 95	3	4	1	2	FY 96	3	4	1	2	FY 97	3	4	1	2	FY 98	3	4	1	2	FY 99	3	4	TC	Total

INPUT

OUTPUT

P-1 SHOPPING LIST

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMPIARI 1082

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: Laundry Water Reuse System Modification
MODELS OF SYSTEMS AFFECTED: M 85 Laundry Unit, Trailer Mounted

DESCRIPTION/JUSTIFICATION:

The Laundry Water Reuse modification will allow the laundry units to conserve 33% to 45% of the water used by the current configuration. Additionally it will allow for recapturing contaminated waste water which is an EPA requirement. This modification also adapts the laundry to accept the new 10KW Tactical Quiet Generator (TOG) in lieu of the military standard generator.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change Approved
- IPR/Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (\$ in millions)

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty

RDY&E

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonrecycling) Equipment
- Equipment (Nonrecycling)
- Engineering Change Orders
- Draws
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-odd)
- Other

* Actual installation unit cost is \$4000 each.

METHOD OF IMPLEMENTATION:

Depot field team. ADMINISTRATIVE LEADTIME: 6 PRODUCTION LEADTIME: 2

CONTRACT DATES:

FY 96: Mar 96 FY 97:

DELIVERY DATES:

FY 96: May 96 FY 97:

INSTALLATION SCHEDULE:

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	IC	Total
INPUT	1	2	2	2	2	2	2	2	60
OUTPUT				15	15	15	15	15	60

P-1 SHOPPING LIST

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

UNCLASSIFIED
INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE:
Certification Qualification Modification

MODELS OF SYSTEMS AFFECTED:
Chamber, Recompression, 100 psi, 3 Man (M300)

DESCRIPTION/JUSTIFICATION:

Recompression chamber is used to treat diver recompression sickness. Modification of these chambers is required to comply with the current Army certification requirements for life support and breathable air systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Material Change Approved
- Revised ILS Plan Implemented
- Production MIPR Accepted by Navy
- First Delivery of Modified Chamber
- Last Delivery of Modified Chamber

FINANCIAL PLAN (\$ in millions)	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	

RDY&E

PROCUREMENT

ICR Quantity	Planned QTR/YR	Actual QTR/YR	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TOTAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
Installation Kits			3	0.24	5	0.43											8	0.67
Equipment																		0.15
Equipment (Nonrecurring)																		0.19
Engineering Change Orders																		0.68
Draws																		0.17
Training Equipment																		0.06
Support Equipment																		1.75
Interim Contractor Support																		
Installation Total Cost																		
Installation Unit Cost (non-add)																		
Other (Production Certification)																		
Total Procurement Cost																		

METHOD OF IMPLEMENTATION:

Chamber modification will be performed by the Navy. Work will be performed by Navy certified chamber specialists. Both hardware and installation funds will be accepted simultaneously by the Navy on a reimbursable basis. The extended initial production lead time is due to substantial initial production process, personnel, and material certification requirements. Once established, actual production lead time will drop significantly.

ADMINISTRATIVE LEADTIME: 6

PRODUCTION LEADTIME: 18 (Initial)

CONTRACT DATES:

FY 95: Mar 95 FY 96: Dec 95 FY 97:

DELIVERY DATES:

FY 95: Jul 96 FY 96: Nov 98 FY 97:

INSTALLATION SCHEDULE:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		IC	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
INPUT	1	2	2	2	2	2	2	2	2	2	2	2	2	2	4	8
OUTPUT																8

P-1 SHOPPING LIST

ITEM NO 165

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UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a
Page of Pages

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
Modification Kits (M157)
(Smoke Obscuration)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY			502					
COST(IN MILLIONS)			2.8					

DESCRIPTION: The current fielded mobile smoke generator applications include the M157 Smoke Generator Sets (SGS) and the M1059 Smoke Generator Carrier (SGC). The M157A1 SGS materiel change incorporated user identified safety and operational improvements to the fielded system. The M157A1E1 change will provide multifuel capability.

JUSTIFICATION: The modification kits will upgrade items to the M157A2 configuration providing safety, operational and multifuel improvements.

P-1 SHOPPING LIST

ITEM NO 165 PAGE NO 43 OF 54

Page of Pages

EXHIBIT P-40

INDIVIDUAL MODIFICATION

February 1995

MODIFICATION TITLE: Retrofit of M157 and M1059 to M157A2 Multifuel
 MODELS OF SYSTEM AFFECTED: M157 Smoke Generator Set and M1059 Smoke Generator Carrier
 DESCRIPTION/JUSTIFICATION: Upgrade Includes Safety, Operational and Multifuel Improvements
 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PPQT Complete Jul 94/Milestone III
 Dec 94

FINANCIAL PLAN: (\$ in millions) FY94 FY95 FY96 FY97 FY98 BY2+2 BY2+3 BY2+4 TC TOTAL
 QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$
 RDTE 6/2.780 6/2.780 502 502 2.480 2.480

PROCUREMENT

Kit Quantity 502
 Installation Kits 2.480
 Installation Kit Nonrecurring
 Equipment 0.289
 Equipment Nonrecurring
 Engineering Change Orders
 Data
 Training Equipment
 Support Equipment
 Interim Contractor Support
 Installation Total Cost
 Installation Unit Cost (non-add)
 Other
 Total Procurement Cost 502/2.769 502/2.769

METHOD OF IMPLEMENTATION: Depot ADMIN LEADTIME 4 months PRODUCTION LEADTIME: 9 months
 CONTRACT DATES: Current Year: Budget Year 1: Jan 96 Budget Year 2:
 DELIVERY DATES: Current Year: Budget Year 1: Sep 96 Budget Year 2:

INSTALLATION	FY94				FY95				FY96				FY97				FY98				TC				TOTAL				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
INPUT:																													502
OUTPUT:																													502

Reports Control
Symbol DD-COMP (AR)
1092

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

Appropriation/Budget Activity
Other Procurement Army 3 - Other Support Equipment

P-1 Item Nomenclature
MODIFICATION OF IN-SVC EQUIPMENT (MA4500)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)		6.1	7.0	4.0	4.0	3.9	4.4	4.4

DESCRIPTION: Micro-climatic Conditioning System (MCS) PIP Number: 1-83-08-4008. The MCS is a self-contained unit designed to cool and ventilate the heavy work suit worn by the M9 ACE operator while the vehicle is exposed to a Nuclear, Biological, Chemical (NBC) environment. The entire M9 ACE fleet will receive the Installation Kit (Group A) consisting of harnesses, filters, control box, and mounting hardware. The Installation Kit will be installed by a depot-level team. The MCS (Group B) consists of the MCS cooling unit and ballistic shielding. The MCS Equipment can be easily installed or moved between vehicles once all vehicles have received the Installation Kit. The MCS equipment will be installed at unit level by unit personnel. M9 ACE Block Modification SIP 3 consists of ten hardware improvements. This includes related application and data costs. The list of improvements is as follows: final drive redesign, hub/sprocket redesign, hardened track pin, steel dozer blade, actuator mounting rings, bowl access plates, automatic track tensioner, automatic blade folder, hydraulic troubleshooting test points and improved winch.

JUSTIFICATION: The M9 ACE will be deployed in theaters experiencing a wide range of weather conditions including ambient temperatures which frequently exceed 85 degrees Fahrenheit. The M9 ACE MCS enhances the lone operator's performance and the vehicle's survivability because potentially life threatening conditions such as heat exhaustion or heat stroke may be averted with the help of an efficient personal cooling system. M9 ACE Block Modification SIP 3 are essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness and maintenance of the M9 ACE.

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995					
Appropriation/Budget Activity Other Procurement Army 3- Other Support Equipment	P-1 Item Nomenclature MODIFICATION KITS M9 ARMORED COMBAT EARTHMOVER (ACE)											
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01				
COST (MILLIONS)		4.5	5.7	2.1	2.1	3.9	4.1	3.9				
M9 ARMORED COMBAT EARTHMOVER	ITEM	NAME						FY94	FY95	FY96	FY97	FY97
M9 ARMORED COMBAT EARTHMOVER	MICRO CLIMATIC CONDITIONING SYSTEM MC#1 83 08 4008				0.000	4.482	0.163	0.000				
M9 ARMORED COMBAT EARTHMOVER	BLOCK MODIFICATION PHASE 3					5.616		2.145				

Reports Control Symbol DD-COMP (AR 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
Appropriation/Budget Activity Other Procurement Army 3 - Other Support Equipment			P-1 Item Nomenclature INSTALLATION OF MODIFICATION KITS M9 ARMORED COMBAT EATHMOVER (ACE)					
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (MILLIONS)	1.6	1.3	1.9	1.9	1.9	0	.3	.5
M9 ARMORED COMBAT EARTHMOVER	ITEM _____ NAME _____ FY94 _____ FY95 _____ FY96 _____ FY97 _____							
M9 ARMORED COMBAT EARTHMOVER	MICRO CLIMATIC CONDITIONING SYSTEM MC# 1 83 08 4008							
M9 ARMORED COMBAT EARTHMOVER	BLOCK MODIFICATION PHASE 3							
M9 ARMORED COMBAT EARTHMOVER	0.000 0.000 1.624 1.265 0.000							
M9 ARMORED COMBAT EARTHMOVER	0.000 0.000 0.000 0.000 1.849							
DD Form 2454, Jul 88								
P-1 SHOPPING LIST ITEM NO 165 PAGE NO. 47 OF 54 Exhibit P-40								

UNCLASSIFIED		WEAPON SYSTEM MODIFICATION - SUMMARY		DATE: February 1985	
REPORTS CONTROL SYMBOL DD-COMP (AR) 1092	P-1 ITEM NOMENCLATURE				
APPROPRIATION/BUDGET ACTIVITY Other Procurement Army 3 - Other Support Equipment	MODIFICATION OF IN-SVC EQUIPMENT (OPA 3) (MA-4500)				
SYSTEM/ MODIFICATION	FY84	FY85	FY86	FY87	
	(TOA DOLLARS IN MILLIONS)				
M9 ACE MODIFICATION	0.000	6.106	1.428	0.000	
MICRO-CLIMATIC CONDITIONING	0.000	0.000	5.616	3.994	
BLOCK MODIFICATION - PHASE 3					
SYSTEM TOTALS	0.000	6.104	7.044	3.994	

UNCLASSIFIED

MODIFICATION OF WEAPONS SYSTEMS

DATE: February 1995

MODIFICATION TITLE: Micro-Climatic Conditioning System (MCS), 1-83-06-4008

MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)

DESCRIPTION/JUSTIFICATION: This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED

Preliminary Design Review:	3Q/83	3Q/83
Critical Design Review:	3Q/88	3Q/88
Contractor Test and Evaluation:	2Q/91	2Q/91
Development Test and Evaluation:	4Q/91	4Q/91
Production Decision	4Q/91	4Q/91
TDP Available:	1Q/92	2Q/92
Hardware Delivery	1Q/94	2Q/94
Field Application Begins	1Q/95	

REPORTS CONTROL SYMBOL
DD-COMP(AR)11092

UNCLASSIFIED
INDIVIDUAL MODIFICATIONS

DATE: February 1985

MODIFICATION TITLE: Micro-Climatic Conditioning System (MCS), 1-83-06-4008

MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)

DESCRIPTION/JUSTIFICATION: This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN(\$ in Millions)	FY94/Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TO COMPLETE	TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RD&E										
PROCUREMENT										
Kit Quantity	84	0.7	374	2.1	0	0.1			458	2.8
Installation Kits				0.2						0.3
Engineering Support				0.3						0.3
TPF/NET										
Installation Kits (Nonrecurring)		5.2	34	2.2		0.0				7.4
Equipment (Nonrecurring)			253	1.3	195	1.3			448	2.6
Installation Total Costs				(6.1)		(1.4)				
Installation Unit Cost(Non-add)										
Installation of Hardware										
PY Equipment										
FY95 Equipment			253	1.6	195	1.3				2.9
FY96 Equipment				6.1						13.4
FY97 Equipment										
FY98 Equipment										
FY99 Equipment										
FY00 Equipment										
FY01 Equipment										
To Complete Equipment										
Total Installation Costs		5.9								
TOTAL PROCUREMENT COST										

METHOD OF IMPLEMENTATION: Depot Team - Field Application
 ADMINISTRATIVE LEADTIME: FY94: MAY 95, FY95: JUL 95, FY96: MAY 96, FY97: JUL 96, FY98: JUL 96, FY99: JUL 96, FY00: JUL 96, FY01: JUL 96
 PRODUCTION LEADTIME: 8

INSTALLATION SCHEDULE:	PY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL		
	1	2	3	4	1	2	3	4	1	2	3	4
INPUT		35										
OUTPUT			35	49	60	180	124					
					30	120	120	94				

ITEM 165 P-1 SHOPPING LIST PAGE 50 OF 54 INDIVIDUAL MODIFICATION EXHIBIT P-3a

MODIFICATION INSTALLATION SUMMARY

February 1995

(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
MICRO-CLIMATIC COOLING SYSTEM MOD KITS	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3
INSTALLATION OF MODIFICATIONS	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	2.6

MODIFICATION OF WEAPONS SYSTEMS

DATE: February 1995

MODIFICATION TITLE: M9 ARMORED COMBAT EARTHMOVER (ACE) BLOCK MODIFICATION - PHASE 3

MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)

DESCRIPTION/JUSTIFICATION: This modification program consist of ten hardware improvements to the M9 ACE system. This also includes application, program management, and data costs. These are immediate essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness, and maintenance of the M9 ACE. Each hardware improvement is applied to 448 vehicles. The steel dozer blade will be installed in conjunction with blade folder. Winches will be installed at unit level.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED

Preliminary Design Review: 4Q/95

Critical Design Review: N/A

Contractor Test and Evaluation: 2Q/96

Development Test and Evaluation: N/A

Production Decision: N/A

TDP Available: 1Q/96

Hardware Delivery: 2Q/97

Field Application Begins: 3Q/97

February 1995

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>TOTAL</u>
SYSTEM MODIFICATION	0.0	0.0	5.6	2.1	2.1	3.9	4.1	3.9	21.7
SYSTEM BLOCK MODIFICATION	0.0	0.0	0.0	1.9	1.9	0.0	0.3	0.5	4.6
INSTALLATION									

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1082

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

P-1 ITEM NOMENCLATURE

Production Base Support

(MA0450)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	9.9	1.9	1.8	2.0	2.4	2.5	2.7	2.7

DESCRIPTION: This program sustains and improves our current capabilities through the purchase of equipment, instrumentation, and facilities. Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System equipment, and Telemetry equipment used in production, production testing and depot level maintenance of other support equipment.

JUSTIFICATION: Funding in FY96 and FY97 will be used for replacement of equipment and instrumentation used in production testing at Yuma, Aberdeen Proving Grounds and the Cold Region Test Center, Ft. Greely, Alaska.

A detailed summary listing of projects is attached.

SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES SUBJECTS

APPROPRIATION: Other Procurement Army, Activity 3

TITLE: Production Base Support DATE: FEBRUARY 1995

PROJECT NUMBER	TITLE/LOCATION	FY94	FY95	FY96	FY97
09X5063	PSR Aberdeen Proving Ground Production Support and Equipment Replacement (PSR) of existing test equipment and instrumentation used to support, record and analyze performance data during production testing.	0.705	0.227	0.700	0.700
09X5068	PSR, Yuma Proving Ground Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System Equipment, and Telemetry Equipment to support data gathering for test support.	1.401	0.201	0.835	0.770
09X5168	MOD, Yuma Proving Ground Modernization of existing obsolete, unrepairable test equipment and instrumentation used during production testing of Army materiel.	0.243	0.302		
09X5070	PSR, Cold Region Test Center Replacement of existing test equipment, instrumentation, provide telemetry data transmission, and telephoto lens for IR Imaging Camera to analyze performance data during cold weather testing of other support equipment.	0.300	0.199	0.300	0.521
09X5066	PSR, Dugway Proving Ground Replacement, rehabilitation of existing, obsolete, unreliable or unrepairable test equipment used for production testing of chemical defense materiel.	0.725			
09X5163	Mod Aberdeen Proving Ground Modernization and upgrade of test instrumentation and test support equipment used for production testing of other support equipment.	0.800	0.944		

(DOLLARS IN MILLIONS)

SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES PROJECTS

APPROPRIATION: Other Procurement Army, Activity 3

TITLE: Production Base Support DATE: FEBRUARY 1995

PROJECT NUMBER	TITLE/LOCATION	FY94	FY95	FY96	FY97
		(DOLLARS IN MILLIONS)			
	Hazardous Minimization Project Office Corps of Engineers	1.700			
	Hazardous Minimization Project Office Secretary of Army	4.035			
PRODUCTION BASE SUPPORT TOTAL		9.909	1.873	1.835	1.991

UNCLASSIFIED

DATE FEBRUARY 1985

REPORTS CONTROL SYMBOL
DD-COMPAR1092

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE
SPECIAL EQUIPMENT FOR USER TESTING

OTHER PROCUREMENT: ARMY 3

OTHER SUPPORT EQUIPMENT

(MA6700)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 98	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	4.9	10.4	9.2	14.1	15.8	18.4	20.1	30.3

DESCRIPTION: THIS PROGRAM PROVIDES FUNDING FOR MAJOR USER TEST INSTRUMENTATION, ARMY THREAT SIMULATORS, AND OPERATIONAL TEST AND EVALUATION SUSTAINING INSTRUMENTATION. MAJOR USER TEST INSTRUMENTATION AND ARMY THREAT SIMULATORS SUPPORT FOR OPERATIONAL TESTING (OT) AND FORCE DEVELOPMENT TESTING AND EXPERIMENTATION (FDTE).

PROCUREMENTS ARE NORMALLY FOR SMALL QUANTITIES, FREQUENTLY ONE ITEM. MAJOR USER TEST INSTRUMENTATION ACQUISITIONS ARE TYPICALLY PRODUCTION RUNS OF INSTRUMENTATION EQUIPMENT DEVELOPED UNDER RDT&E FUNDED CONTRACTS.

TYPICAL ARMY THREAT SIMULATOR ACQUISITIONS ARE COMMERCIAL END ITEMS. THESE ARE USED AS COMPONENTS IN THREAT SIMULATORS. WHEN AVAILABLE, FOREIGN/THREAT SYSTEMS AND END ITEMS ARE ACQUIRED.

OT&E SUSTAINING INSTRUMENTATION PROCURES LOW DOLLAR AUGMENTATIONS AND REPLACEMENTS FOR OBSOLETE OR TECHNICALLY DEFICIENT EQUIPMENT.

JUSTIFICATION:

THE THREAT SIMULATOR EFFORT IN FY86-87 WILL CONTINUE PROCUREMENTS IN: THE XM155 THREAT AIR DEFENSE SYSTEM, XM187, THE TS DIAGNOSTIC/FMS, XMHKSHJS/ADVANCED AIRBORNE JAMMER, THE XMCS3 COMMAND AND CONTROL SYSTEMS, AND THE XM175/M18A/S THREAT AIR DEFENSE SYSTEMS.

IN FY96 OPTEC'S OPERATIONAL TEST INSTRUMENTATION PROGRAM (OTIP) CONTINUES PROCUREMENT OF A TARGET IDENTIFICATION AND RTCA PAIRING SYSTEM FOR ARMORED VEHICLE WEAPON SYSTEMS THAT IS EFFECTIVE IN BATTLEFIELD OBSCURANT: SMOKE, DUST, AND FOG. IN FY97 OPTEC'S OTIP COMPLETES THE PROCUREMENT OF NON-INTRUSIVE DATA COLLECTION SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT AND OF A VIDEO IMAGING AND PROCESSING SYSTEM. IT CONTINUES PROCUREMENT OF FOREIGN ASSOCIATED END ITEMS OF EQUIPMENT TO SUPPORT REALISTIC OPERATIONAL TESTING.

MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS)
THE MAIS FY97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY.

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY
 P-1 ITEM NOMENCLATURE
 THREAT SIMULATORS - SPECIAL
 EQUIPMENT FOR USER TEST
 (MAG700)

OTHER PROCUREMENT: ARMY 3
 OTHER SUPPORT EQUIPMENT

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	2.5	6.8	5.9	3.3	3.2	3.1	4.6	5.9

DESCRIPTION: THE ACQUISITION STRATEGY USED BY THE ARMY THREAT SIMULATOR PROGRAM IS TO PROCURE ACTUAL FOREIGN HARDWARE. THE SECOND OPTION IS TO USE NON DEVELOPMENTAL ITEMS (NDI) TO THE MAXIMUM EXTENT POSSIBLE (FOR EXAMPLE, CHASSIS, SUBSYSTEMS, COMMERCIAL EQUIPMENT, OR ACTUAL THREAT WEAPONS) WHICH INTEGRATES INTO A THREAT SIMULATION DESIGN. THE HIGH PROBABILITY OF ACQUIRING NDI EQUIPMENT HAS LED TO PROGRAMMING OF PROCUREMENT FUNDS TO RESOURCE THIS PORTION OF THE PROJECT EQUIPMENT WHICH SUPPORTS US ARMY MAJOR SYSTEM OPERATIONAL TESTING SUCH AS THE J-TIDS, MLRS SADARM V, AVENGER, APACHE LONGBOW, OH-58 ARMED, COMMANCHE (RAH66) AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE) WARNING RECEIVER SYSTEMS. THREAT SIMULATOR DIAGNOSTIC EQUIPMENT SUPPORTS VALIDATION, OPERATIONAL PERFORMANCE MONITORING, CALIBRATION, AND MAINTENANCE.

JUSTIFICATION: THE ARMY THREAT SIMULATOR PROGRAM PROCURES REALISTIC THREAT SIMULATORS OR STAND ALONE COMPONENTS OF SIMULATORS FOR ARMY TEST ORGANIZATIONS. SIMULATOR PROCUREMENT IS RESPONSIVE TO OFFICE OF THE SECRETARY OF DEFENSE AND GENERAL ACCOUNTING OFFICE CONCERNS THAT THE ARMY CONDUCT OPERATIONAL TESTING IN A REALISTIC THREAT ENVIRONMENT.

THE EFFORT IN FY96-97 WILL CONTINUE PROCUREMENT IN THE FOLLOWING AREAS: XM155, XMTAR, TS DIAGNOSTIC/FMS, XMHKS/HJS/ADVANCE AIRBORNE JAMMER(AAJ), XMC3S, XM17S, AND XM18A/S. THE XM155 FUNDING PROCURES NDI NECESSARY FOR SUSTAINMENT (FY97). THE XMTAR FUNDING PROCURES THE UPGRADED SOFTWARE PACKAGE FROM THE ORIGINAL EQUIPMENT MANUFACTURE (FY96). THE TS DIAGNOSTICS/CALIBRATION PROCURES THE VALIDATION, OPERATIONAL PERFORMANCE MONITOR CALIBRATION, AND MAINTENANCE OF ALL ACTUAL AND SIMULATED SYSTEMS IN DEVELOPMENT (FY96-97). THE XMHKS/HJS/AAJ FUNDING PROCURES AN ACTUAL ELECTRONICS PACKAGE (FY97). THE XMC3 FUNDING PROCURES THE NDI PROCESSING STATION FOR INTEGRATION OF THE THREAT SIMULATOR NETWORK (FY96) AND THE VIRTUAL ENVIRONMENT INTERFACE UNIT FOR THE REGIMENTAL ELEMENTS (FY97). THE XM17S FUNDING PROCURES AN ACTUAL ANTENNA (FY96). THE XM18A/S FUNDING PROCURES NDI SCORING PACKAGES (FY96).

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapon System Cost Elements	Ident. Code	A. Appropriation/Budget Activity Title/No. OPA3- Threat Simulators		B. WEAPON MODEL/SERIES/POPULAR NAME-THREAT SIMULATORS		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION VARIOUS		D. DATE Month/Year FEBRUARY 1995	
		FY94 Unit Cost	FY94 Qty Total Cost	FY95 Unit Cost	FY95 Qty Total Cost	FY96 Unit Cost	FY96 Qty Total Cost	FY97 Unit Cost	FY97 Qty Total Cost
ARMY THREAT SIMULATORS	A								
A. XM15S		745	1/745	554	1/554			1000	1/1000
B. XMTAR		1275	1/1275			500	1/500		
C. XM43A/S		500	1/500	113	2/226				
D. TS DIAGNOSTIC				382	1/382			283	1/283
E. ADVANCED AIRBORNE JAMMER				1250	2/2500			1000	1/1000
F. XMC3S				420	1/420			1000	1/1000
G. XM17S				1914	1/1914			1954	
H. XM18S				200	4/800			4/2000	
TOTAL								6796	5866
									3283

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

A. DATE
FEBRUARY 1996

C. P-1 ITEM NOMENCLATURE
TSMO - Special Eqmt for User Testing

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement Army/3 - Threat Simulators

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
XM15 FY94 A. Acq Ant & Computer	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	745000	YES	NO	
FY95 A. Acq Ant Documents	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Apr-95	Sep-95	1	554000	YES	NO	
FY97 A. NDI Maint Equipment	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	1	1000000	YES	NO	
XMTAR FY94 B. Target Tracking Rdr	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	1275000	YES	NO	
FY96 B. Software Modification	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Feb-96	Sep-96	1	500000	YES	NO	
XM43A/S FY94 C. XM43A/S Transmitter	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	500000	YES	NO	
FY95 C. Night Vision Camera	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Feb-95	Jun-95	2	113000	YES	NO	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army/3 - Threat Simulators

C. P-1 ITEM NOMENCLATURE

TSMO - Special Eqmt for User Testing

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
TS Diagnostic/ FMS FY95	NRC Huntsville, AL	CPFFF/LC	MICOM, RSA, AL	Feb-95	Sep-95	1	382,000	YES	NO	
D. Diagnostics/ Calibration Spt Testing FY96	Undetermined	CPFFF/LC	MICOM, RSA, AL	Feb-96	Sep-96	1	912,000	YES	NO	
D. Diagnostics Calibration Spt Testing FY97	Undetermined	CPFFF/LC	MICOM, RSA, AL	Feb-97	Sep-97	1	283,000	YES	NO	

The Calibration equipment purchased each year varies as to type, thus, resulting in different unit costs.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1995

C. P-1 ITEM NOMENCLATURE

TSMO - Special Eqmt for User Testing

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army/3 - Threat Simulators

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
XMHKS/HJS/AJ FY95										
E. Actual Aircraft MI-17	Maverick Enterprise, AL	FP/SS	MICOM, RSA, AL	Mar-95	Sep-95	2	1250000	YES	NO	
FY97										
E. Airborne Electronics Equipment	Undetermined	FP/SS	MICOM, RSA, AL	Feb-97	Sep-97	1	1000000	YES	NO	
XMC3S FY95										
F. Mobile Threat System Cmd Station Shelter	GTE Mt View, CA	CPFF/SS	MICOM, RSA, AL	Feb-95	Sep-95	1	420000	YES	NO	
FY96										
F. Off the self Processing Station for Integ Threat Sim Net	GTE Mt View, CA	CPFF/SS	MICOM, RSA, AL	Oct-95	May-96	1	500000	YES	NO	
FY97										
F. Virtual Environment Interface Units	GTE MT. View, CA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	1	1000000	YES	NO	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1995

C. P-1 ITEM NOMENCLATURE

TSMO - Special Eqmt for User Testing

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army/3 - Threat Simulator

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
XM17S FY95	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Apr-95	Sep-95	1	1,914,000	YES	NO	
FY96	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Oct-95	May-96	1	1,954,000	YES	NO	
XM18S FY95	DBA Melbourne, FL	T&M/SS	MICOM, RSA, AL	Feb-95	Sep-95	4	200,000	YES	NO	
H. XM18S Seeker	DBA Melbourne, FL	T&M/SS	MICOM, RSA, AL	Oct-95	May-96	4	500,000	YES	NO	

D. REMARKS

* Includes technical manuals

BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE
MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS)
(MA 6700)

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY				9 0	10.2	10.9	13 0	20.2
COST (IN MILLIONS)								

DESCRIPTION: THE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) WHICH IS AN INSTRUMENTATION SYSTEM CAPABLE OF REAL TIME MONITORING FOR THE PURPOSE OF DATA COLLECTION AND ANALYSIS, AND REAL TIME CASUALTY ASSESSMENT. TEST DATA IS COLLECTED WHILE MONITORING, CONTROLLING, AND RECORDING FORCE-ON-FORCE ENGAGEMENTS IN A BATTLEFIELD ENVIRONMENT. MAIS WILL SUPPORT: CONDUCT OF ARMY/OSD OPERATIONAL FORCE DEVELOPMENT TESTS, EVALUATIONS ON CURRENT AND FUTURE TACTICAL EQUIPMENT, ASSESSMENT OF CHANGES TO DOCTRINE, ORGANIZATION, AND TRAINING METHODS.

JUSTIFICATION: THE MAIS FY 97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY. THE MAIS WILL PROVIDE THE CAPABILITY TO MEET THE TEST AND EVALUATION NEEDS FOR FUTURE HARDWARE, TACTICS, AND ORGANIZATIONS IN AN OPERATIONAL ENVIRONMENT. THE PLAYER UNITS WILL BE MOUNTED ON GROUND VEHICLES, FIXED WING AIRCRAFT, HELICOPTERS, CREW SERVED WEAPONS AND INDIVIDUAL SOLDIERS TO TEST EMERGING AND UPGRADES TO WEAPON SYSTEMS IN A COMBAT REALISTIC FIELD ENVIRONMENT.

WEAPON SYSTEM COST ANALYSIS

EXHIBIT (P-5)
Page 1 of 1

Weapon System Cost Elements	Ident. Code	A. Appropriation/Budget Activity Title/No. OPA/3 Other Support Equipment		B. WEAPON MAIS (MA6700)		C. MANUFACTURER NAME LORAL Akron, OH		D. DATE FEBRUARY 1995	
		FY 94 Unit Cost	FY 95 Unit Cost	FY 96 Unit Cost	FY 97 Unit Cost	Qty Total Cost	Qty Total Cost	Qty Total Cost	Qty Total Cost
Major User Test Instrumentation (MUTI)									
A. MAIS C3 Central Instrumentation Facility	B				4500000			1/4500	
B. MAIS Ground Vehicle Player Unit					84000			52/4368	
C. Engineering Support								87	
D. Administration								65	
TOTAL									9000

BUDGET PROCUREMENT HISTORY AND PLANNING ELEMENT (P-5A)

A. DATE
FEBRUARY 1996

B. APPROPRIATION/BUDGET ACTIVITY Other Procurement Army: 3 - Other Support Equipment		C. P-1 ITEM NOMENCLATURE MAIS				A. DATE				
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS VAILABL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. MUTI A. C3 Central Instrumentation Facility/FY97	LORAL, AKRON, OH	OPTION*	Naval Air Warfare Center, Orlando, FL	Feb-97	Jan-99	1	4,500,000	NO	YES	Dec-96
B. Ground Vehicle Player Unit /FY97	LORAL, AKRON, OH	OPTION*	Naval Air Warfare Center, Orlando, FL	Feb-97	May-98	52	84,000	NO	YES	Dec-96

D. REMARKS
* Exercise production option to the Research and Development contract which was competitively awarded June 1991.

CODE "B" ITEM DESCRIPTION	DATE	FEBRUARY 1995	REPORT CONTROL SYMBOL
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE MAIS (MA6700)		

CURRENT DEVELOPMENT AND TEST STATUS		SCHEDULE DATE	
CURRENT	LAST REPORTED	REASON FOR DELAY	
DEV TEST & EVAL (DT&E) PLAN	Jun-96		
INITIAL OPER TEST & EVAL (IOT&E) PLAN	Oct-96		
MILESTONE III PLAN	Dec-96		
AVAIL DATE OF TECH DATA PKG (T OR PERFORMANCE SPECIFICATIONS PLAN	Dec-96		

ESTIMATED DATE OF APPROVAL FOR SERVICE USE Jan 97

EQUIPMENT ITEM(S) TO BE REPLACED
NONE

EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED

DEVELOPMENT CONTRACT INFORMATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
LORAL SYSTEMS	AKRON OHIO		68.800	20.394	23.680	5.077	CONTINUING
TOTAL RDT&E FUNDING			68.800	20.394	23.680	5.077	CONTINUING

REMARKS:
RELATED PROGRAMS/PE: P.E. 0604759 D986

REPORTS CONTROL SYMBOL

DATE

FEBRUARY 1995

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OPTEC - SPECIAL EQUIPMENT
FOR USER TEST

OTHER PROCUREMENT: ARMY 3

OTHER SUPPORT EQUIPMENT

(MA6700)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	2.4	3.6	3.3	1.8	2.4	2.4	2.5	4.1

DESCRIPTION: TO REMAIN AHEAD OF NEW WEAPONS AND COMMUNICATIONS SYSTEMS, THE TESTER REQUIRES ADVANCED TECHNOLOGY INSERTION INTO INSTRUMENTATION PRIOR TO THE SYSTEM TESTS. THIS PROJECT PROVIDES A COST EFFECTIVE DATA COLLECTION, TELEMETRY, AND PROCESSING CAPABILITY TO CONDUCT CREDIBLE AND ROBUST OPERATIONAL TEST AS REQUIRED BY THE DOD AND CONGRESS. IT MODERNIZES OPTEC'S INSTRUMENTATION CAPABILITY AND DEVELOPS NON-MAJOR INSTRUMENTATION THAT IS NON-INTRUSIVE, MORE RELIABLE, AND PROVIDES NEAR REAL-TIME ACCESS OF DATA FOR TEST CONTROL AND ANALYSIS BY INTEGRATING COMBAT SIMULATORS INTO OPERATIONAL TESTS AND BY INSERTING TECHNOLOGY ADVANCES INTO OPTEC INSTRUMENTATION. IT SUPPORTS REAL-TIME CASUALTY ASSESSMENT (RTCA) PROVIDING REALISTIC SIMULATED ATTRITION OF FORCES. FUNDING PROVIDES A TEST CAPABILITY WHICH REQUIRES LESS MANPOWER TO OPERATE AS NECESSITATED BY OPTEC DOWNSIZING OF PERSONNEL.

JUSTIFICATION: FUNDING WILL PROVIDE OPTEC'S ABILITY TO ASSESS PERFORMANCE OF THE LONGBOW APACHE HELICOPTER, SPECIAL OPERATIONS AIRCRAFT, ARMY TACTICAL COMMAND AND CONTROL SYSTEMS, AND OTHER HIGH PRIORITY WEAPONS SYSTEMS AGAINST A CREDIBLE THREAT ON A REALISTIC BATTLEFIELD.

THE INCREASED FUNDING LEVEL FOR OPTEC'S LIVE OPERATIONS TEST INSTRUMENTATION PROGRAM (OTIP) STARTING IN FY 1996 BEGINS PROCUREMENT OF A TARGET IDENTIFICATION AND RTCA PAIRING SYSTEM FOR DISMOUNTED TROOPS AND CREW-SERVED WEAPONS ARE EFFECTIVE IN BATTLEFIELD OBSCURANTS: SMOKE, DUST, AND FOG. IT CONTINUES THE PROCUREMENT OF NON-INTRUSIVE DATA COLLECTION AND TELEMETRY SYSTEMS INITIATED IN FY 1995. THIS IS ESSENTIAL TO ENSURE COMMAND AND CONTROL AND SYSTEM PERFORMANCE MEASURES OF EFFECTIVENESS (MOEs) CAN BE EVALUATED WITH MEASURABLE, OBJECTIVE, AND RESPONSIVE ATTRIBUTES AS OPPOSED TO SUBJECTIVE ESTIMATES. IT PROVIDES AN INSTRUMENTED CAPABILITY TO CAPTURE DATA AT REMOTE, MOBILE, TACTICAL FIELD LOCATIONS, AND ELECTRONICALLY TRANSMIT THE DATA TO RECEIVING, CONTROL, AND EVALUATION STATIONS AT THE RESPECTIVE TEST DIRECTORATES. THESE DIRECTORATES ARE LOCATED AT FORT BLISS, FORT HUACHUCA, AND FORT SILL. THIS FUNDING ALSO COMPLETES PROCUREMENT OF OPTEC'S INTERIM RTCA CAPABILITY THAT SUPPORTS THE BATTLEFIELD COMBAT IDENTIFICATION SYSTEM (BCIS), ARMORED GUN SYSTEM (AGS), BRADLEY FIGHTING VEHICLE SYSTEM (BFVS) AND OTHER FORCE-ON-FORCE TESTS.

WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)
Page 1 of 2

Weapon System Cost Elements	Ident. Code	FY94		FY95		FY96		FY97		D. DATE Month/Year FEBRUARY 1996
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	
K-Band TEC Observation Pairing Sys (K-Tops)	A	150000	4\600	500000	2\1000	1949000	1\1949			
Range Measurement Sys (RMS) A/B/D Stations	A	40000	20\800							
Low Light Documentary Video&PhotographySys	A	75000	1\75							
GPS Tracking System	A	200000	1\1200							
Integrated Log Sys Dig Recording&Dis Sys(ILSDRD	A	100000	1\1100							
Video Acq & Image Processor Sys	A	60000	1\60	100000	1\1100	91250	4\365	75000	4\300	
Electronic Warfare Mon Fac Signal Processor	A	150000	1\1150							
A/EWTS Control Monitor System	A	81000	1\81							
Threat Helicopter Engines	A	167000	1\1167							
Mobile Tech (MTEC) RTCA Capability	A			700000	1\700					
Plastic Injection Molding Machine	A			140000	1\1140					
Distributed Test Support System	A			120000	1\1120					
Threat Simulator Engine (XM-42A)	A			157000	1\157					
Vertical Incidence Skywave Antenna, HF	A			60000	1\60					
Automatic Drafting System Processor	A			66000	1\66					
GPS Interface,Reference Revcr, & Telemetry Sys	A			473000	1\473					

WEAPON SYSTEM COST ANALYSIS

EXHIBIT

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Weapon System Cost Elements	Ident. Code	FY94		FY95		FY96		FY97		D. DATE Month FEBRUARY 1996
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	
OTSA Radar Signal Generator	A					155000	11155			
OTSA Optical Work Station	A					100000	11100			
OTSA Foreign Equipment	A					190000	11190	658000	11658	
Inertial GPS Intergration	A			161666	3/485	90000	61540	94333	91849	
OTEMS	A	1050	20121							
Processor Motor Boards	A	7800	14109							
Land Server Upgrade	A	45000	1145							
A/IEWTS UPGRADES	A			115000	3/345					
TOTAL			2408		3646		3299		1807	

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET							February 1995	
Appropriation/Budget Activity : Other Procurement, Army Activity 3, Other Support Equipment		P-1 Item Nomenclature: OPA Initial Spares (MY0035)								
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST (MILLIONS)	0	68.0	0	0	0	0	0	0	0	0
DESCRIPTION:	Provides for procurement of spares to support initial fielding of new or modified end items.									
JUSTIFICATION:	The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:									
				FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
FAAD C2			0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
CSSCS			0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
AFATDS			0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
FA C2 SYS AFATDS			0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
IMETS (TIARA)			0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)			0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
SINGGARS			0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
DEFENSE SATELLITE COMMUNICATIONS			0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0
NAVSTAR GLOBAL COMMUNICATIONS			0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
TRI-TAC			0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0
ARMY DATA DISTRIBUTION SYSTEM (ADDS)			0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
TACSATCOM			0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
JOINT STARS (ARMY) (TIARA)			0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
NIGHT VISION DEVICES			0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						February 1995	
Appropriation/Budget Activity : Other Procurement, Army Activity 3, Other Support Equipment		P-1 Item Nomenclature: OPA Initial Spares (MY0035)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (MILLIONS)									
FIREFINDER	0.0								
SIGNAL WARFARE EQUIP	0.0			0.7					
PM EWRSTA PEO IEW	0.0			11.1					
GROUND BASED COMMON SENSOR	0.0			0.1					
EUCOM CMD CTRS	0.0			0.9					
OPTADS MCS	0.0			0.2					
POWER PROJECTION C4	0.0			0.0					
DMS ARMY	0.0			1.3					
CORPS/THEATER ADP SVC CTR (CTASC)	0.0			0.2					
LOGTECH	0.0			1.2					
STAMIS TACTICAL COMPUTERS	0.0			0.2					
TACCIMS	0.0			3.1					
WW TECH CON IMP PROG (WWTCIP)	0.0			0.1					
TMDE MODERNIZATION (TMOD)	0.0			0.1					
STRATEGIC C2 FACILITIES	0.0			2.5					
COMSEC INFO SECURITY	0.0			0.2					
TROJAN (TIARA)	0.0			3.8					
AN/TYQ-52	0.0			1.6					
NBC PROTECTION SYSTEM	0.0			1.0					
NBC DECON SYSTEM	0.0			0.2					
NBC CONTAMINATION AVOID	0.0			0.2					
	0.0			0.8					

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement, Army, Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE

TRACTOR VAPOR

(MAB975)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01
QUANTITY							
COST(IN MILLIONS)			2.2	4.0	2.8	6.6	5.0 / 2.7

DESCRIPTION: Funds will provide for the replacement of critical components that are approaching end of shelf-life and new equipment required to maintain mission capability for a classified program. Current industry practice of minimizing inventory and manufacturing only to order has caused revisions in operational plans that formerly depended on rapid procurements. Reduced demand for heavy industrial process components and the subsequent shrinkage of the U.S. manufacturing base in casting, forging, and fabrication have caused lead times to exceed the acceptable mobilization period. Procurement of these components will ensure successful mission responses to emergency situations.

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

B U D G E T I T E M J U S T I F I C A T I O N S H E E T

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Activity 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
NATURAL GAS UTILIZATION

(MA9760)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01
QUANTITY							
COST(IN MILLIONS)	10.0	2.5					

DESCRIPTION: Funds the procurement of natural gas chillers and other non-developmental natural gas fuel cells for air conditioning and power generation at military installations.

P-1 SHOPPING LIST

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